LAURUS SYSTEMS

CBRNE

Detection & Monitoring

Equipment & Services Catalog

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LAURUS Systems Inc. is a certified woman-owned small business corporation that specializes in the sales, service, installation and training of radiation, chemical, biological and explosives detection equipment. LAURUS Systems has acquired an expansive customer base in the U.S. and abroad including, federal, state, and local agencies; military installations; national labs; hospitals; and commercial manufacturing and processing entities.

The LAURUS mission is to exceed customer expectations and to take an innovative approach to business. Many of our products carry an unheard of full two (2) year warranty. We represent only those manufacturers who share our vision and meet or exceed the following benchmarks:

- First and foremost being responsive to the needs of the customer.
- Provide only high quality, durable equipment.
- Meet or exceed applicable industry standards; mil-specs, ANSI, NRC etc.

GS-07F-0147T

LAURUS Systems, Inc. has built a solid reputation on fair pricing, quality products and most importantly, responding to and understanding the needs of the customer.
We are pleased to offer our products under the General Services Administration (GSA) Schedule. Contact us for information regarding other specially negotiated contracts.

Staff and Management
LAURUS Systems Inc.

Contents

Electronic Alarming Dosimeters Pocket Dosimeters, Personal Radiation Detectors	Dosimeters and PRD's…….. 2
Hand Held Instruments, Dose Rate Instruments Contamination Instruments, Probes, Accessories	Survey Instruments……..…..…. 8
Hand Held Radioisotope Identifiers Multi-Channel Analyzer, Accessories	Isotope Identification…….... 13
Area Monitors, Vehicle Mounted, Personnel, Vehicle & Waste Monitors, Radon	Radiation Monitoring……..…. 18
Scrap Metal, Recycling, Steel and Metals, Municipal Waste Vehicle, Train and Handheld Radiation Monitoring	Scrap, Steel & Waste…..…….…. 23
Constant-Flow and High Volume Air Samplers Filter Holders, Cartridges, Filter papers, Kits, Accessories	Air Sampling Equipment…….. 27
The Original LAURUS Systems First Response Kits Radiation and Contamination Control, Custom Configurations	Custom Response Kits……..…... 31
Explosives, Trace Detection, Narcotics Chemical Detection, The Chameleon	Chemical, Trace Detection..…… 33
Biological Detection & Sampling Screening Kits	Biological Detection/Sampling……. 38
Portable X-Ray, Metal Detectors Cabinet X-Ray, Security Scanning	X-Ray & Security Scan……..…… 40
Instrument and Radiation Response Training Instrument Maintenance, Calibrations, Consulting Services	Services……..……43

DMC 3000

Covering a wide range of X-Ray and Gamma radiation detection, our DMC 3000 Electronic Dosimeter represents over 25 years of real-world electronic dosimetry experience, continually refined through customer feedback. The unique, high contrast and backlit LCD display provides a clear indication of wearer's dose and ambient dose rate for deep dose equivalent. More importantly, multiple methods (audible, visual, and tactile) are utilized to alert the wearer of alarm conditions. Best of all, the DMC 3000 provides all of this protection, for over 2500 hours of continuous use, with a single AAA battery.

Readers come equipped with dosimeter configuration software to manage the all electronic dosimeter settings and thresholds for the DMC3000 series of instruments.

LDM 320D

LDM 320W

Beta Module

The Beta Module provides operational dosimetry for hospital personnel, first responders, and radiation workers where there is a Beta radiation risk. The add-on Beta module plugged to the DMC 3000 dosimeter provides Hp (0.07) and a wide range of beta radiation measurement.

GSA

Innovative modular design!

The DMC3000 features an innovative and cost effective modular design whereby the beta monitoring option, neutron dosimetry option and telemetry options integrate easily by simply snapping into place. This eliminates the need for additional costly instruments when applications and needs change.

Neutron Module

The Neutron Module provides operational dosimetry for Military, First Responders and radiation workers where there is a Neutron radiation risk. The add-on Neutron Module attaches to the DMC 3000 dosimeter and is able to measure Hp(10) radiation at a wide range of energy levels.

Telemetry Module

The Telemetry Module is an accessory device for the DMC3000 that physically integrates into the dosimeter's case. The purpose of the Telemetry Module is to transmit a worker's radiological data (accumulated dose, dose rate and alarm status) to other WRM2 Telemetry System components (Base Station, Repeater, etc.).

Instadose 2 & Instadose Plus

Instadose2 gamma dosimetry is a smarter radiation monitoring platform that is simplifying administration, reducing costs and transforming how staff are monitored and safeguarded from radiation over-exposure. Instadose2 wireless captures, transmits, measures, analyzes, and reports radiation dose exposure anytime, as often as needed. Instant measurement results, along with smarter tracking and reporting of current and long-term dose exposure, make administration and compliance easier.

Instadose VUE

The Instadose VUE provides fast exposure reporting and dosimeter status feedback, making exposure tracking and compliance easier. With the use of Bluetooth® Low Energy (BLE) Technology, it wirelessly transmits radiation dose exposure anywhere, anytime, and as often as needed. Now administrators and wearers can track dose on-demand.

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EPD TruDose

The Thermo Scientific EPD TruDose Electronic Dosimeter delivers unparalleled real-time dose reading improves your employees' safety and streamlines workplace efficiency by providing ultraprecise dosage information.

For over 25 years, Thermo Scientific EPD's have set the standard for trusted radiological performance in electronic personal dosimetry. Building on that history, our next generation electronic personal dosimeter, the Thermo Scientific™ EPD TruDose™ Electronic Dosimeter, delivers the performance and reliability you have grown to trust with the modern features you expect. .

Direct Read Dosimeters

Direct Read Pocket Dosimeters are rugged, precision instruments about the size of a pocket fountain pen, which are used to measure accumulative doses or quantities of gamma & X-ray radiation. A metal clip is used to attach the dosimeter to an individual's pocket or to any available object in an area to be monitored for total radiation exposure. It is pocket-size, conductive-fiber electroscope with an ion chamber for detecting and indication integrated exposure to gamma and x-radiation. It has a thin wall which permits the penetration and detection of radiation.

Dosimeter Chargers

PED2 & PED2-IS

Built on over a decade of user experience, the Tracerco™ Personal Electronic Dosimeter 2 (PED2) is a rugged, compact, grab-and-go device that is easy to use, easy to manage and offers leading edge radiation protection.

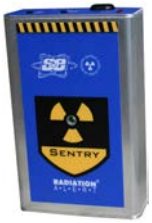
The flexible device measures, records and displays dose rate and accumulated dose in real time with up to four configurable dose and dose rate alarm settings that trigger audible, visual, textual and tactile alerts.

A single button is used to navigate an intuitive carousel menu and a large, easy-to-read color display ensures that vital information is clear and simple to understand providing unparalleled situational awareness.

Exposure data is automatically logged into a self-managing memory and can be seamlessly and securely transferred into the Tracerco™ DoseVision™ software platform for simple reporting and visualization. DoseVision™ enables straightforward device configuration and offers optional cloud based services ensuring secure, auditable, and efficient management of equipment and worker dose data.

PED2

PED2-IS



Sentry

The Radiation Alert Sentry Personal Alarming Dosimeter and Rate Meter is designed to ensure the personal safety of personnel that work in occupations with potential x-ray or gamma exposure. The Sentry Software option enables you to generate incident reconstruction for analysis and also enables you to easily set the vibrating and audio alert to your desired levels for dose and dose rate. Use the audio switch to choose between an audible click with every count taken, or a discreet silent mode that can be augmented with the use of headphones.

RGU-100

The RGU-100 Military Pocket Radiac detects and quantifies prompt gamma and neutron dose as well as residual gamma dose and dose rate in support of both tactical and non-tactical use. This rugged dosimeter is equipped with a back lit LCD as well as pre-selectable audio and visual alarms that provide clear, real time indications of radiological conditions in demanding environments. Its built-in sleep mode offers enhanced operational flexibility by extending battery life. An infrared RS-232 port that resides in the RGU-100 enables its data to be accessed by a computer.

AccuRad PRD

The AccuRad discreet yet robust PRD designed for law enforcement, fire rescue, and other emergency responders to detect and interdict nuclear and radioactive materials. It also provides dose measurement and alarming capabilities for event response.

The AccuRad PRD is the first PRD developed in close collaboration with state and federal law enforcement and first responders to fit seamlessly into their routines and address the most critical, in-the-field needs from a radiation detection device.

The AccuRad PRD runs on innovative Variable Background Suppression (VBS), allowing operation in varying background environments and will alarm only for a real threat or hazard. The AccuRad PRD provides dose measurement and dose alarms for radiological events, utilizing Mirion's long-standing expertise in the radiation safety industry.

Only get alerts for real threats. The AccuRad PRD runs on innovative Variable Background Suppression (VBS), allowing operation in varying background environments and will alarm only for a real threat or hazard.

Get accurate radiation exposure readings. The AccuRad PRD provides dose measurement and dose alarms for radiological events, utilizing Mirion's longstanding expertise in the radiation safety industry.

The app allows real-time data visualization and real-time data relays to increase situational awareness across many PRDs and other detectors. Compatible with a variety of platforms, including RadResponder, Sigma and SpirVIEW Mobile™ software.

AccuRad Pouch

Top

Side

Front

AccuRad App

Companion Interface

AccuRad Source Jig

- Fixture for performing preoperational checks and routine preventive maintenance
- Provides consistent detector-to- source geometry to ensure accurate measurements
- Uses exempt quantity Cs- 137 button source (5-8 µCi activity). Reference rates provide for easy accuracy checks
- Source is secured by spring clip to prevent inadvertent displacement

GSA

AccuRad Sim Kit

The AccuRad Simulator offers source-less training, providing realism without the risk of radiation exposure.

AccuRad Management Center

Companion PC Software Program

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RadEye PRD4/PRD ER4

The Thermo Scientific™ RadEye™ PRD4 and PRD-ER4 personal radiation detectors provide highly sensitive radiation detection capability with little to no nuisance alarms, saving users valuable wasted time adjudicating alarms while at the same time improving or increasing scanning throughput. Additionally, the PRD identifies the nature of the discovered material in a manner configurable for your operation or user skills by distinguishing between artificial vs natural sources of radiation.

The neutron capability of the RadEye PRD personal radiation detector provides an additional layer of detection capability that is critical in determining the level of the radiation threat or problem.

Configure the RadEye PRD personal radiation detector as a simple 0 to 9 radiation level gauge Or turn on dose rate readings, simplified gamma ID classification, or full spectroscopic capabilities.

The ability to calibrate the units in the field saves on down time and extra inventory to support costly turn-in/replacement resources.

RadEye B20

The Thermo Scientific RadEye™ B20 / B20-ER models are the next generation line of improved quick survey and precision scaler measurement meters. These modern and compact survey meters measure alpha beta, gamma and X-ray surface contamination.

In addition these pocket-sized instruments can also be used for accurate dose rate surveys, if used with optional energy compensated filters (17 keV – 3 MeV). For emergency response applications, the alpha and beta contamination measurements can be discriminated using the alpha blocker filter.

The RadEye B20 will automatically switch to the proper measuring unit, if any auto detection filter is fitted to the face of the B20 detector. This automatic function helps to avoid accidental misuse and to quickly change from one measurement to the next.

These instruments are part of the growing RadEye family of high-end stand-alone meters, which are designed to exceed the most demanding user experience.

RadEye SPRD ER

The RadEye SPRD-ER Personal Radiation Detector provides significant detector sensitivity for search and find, combined with accurate high dose rate radiation measurement, the SPRD-ER is a suitable Geiger counter for all users and may be the only radiation detector you need. The SPRD-ER radiation detector identifies the nature of the discovered material in a manner configurable for your operation or user skills.

Agencies have seen nuisance alarms reduced by 80% as a result of concentrated NORM materials such as granite, natural stone and subway tiles after deploying instruments that utilize our Natural Background Rejection (NBR) Technology. The patented Natural Background Rejection algorithm (NBR), allows the RadEye SPRD-ER to immediately separate man-made (non-NORM) gamma radiation from natural background fluctuations in real-time during operation. When enabled, the RadEye SPRDER automatically classifies and identifies gamma radiation as a result of an NBR alarm.

Mini Rad-D G3

The next generation Mini Rad-D G3 is a very discrete and rugged all-weather PRD that is pager size yet powerful enough to quickly locate low-level radioactive sources. It has been designed and refined to discreetly monitor in any environment without intrusion to normal operations. The Mini Rad-D G3 can be set to notify the user with an audible or vibrating alarm whenever gamma radiation exceeds natural background levels.

RadEye SPRD/SPRD GN

Natural Background Rejection NBR is a technology used to eliminate fluctuating natural background levels while measuring radiation. This proprietary and patented technology is used to quickly differentiate between natural and artificial radiation by stripping away any natural background radiation that is registering, delivering you a more accurate result of artificial radiation levels.

The RadEye SPRD offers the next generation of NBR. The added fidelity of the new multi-channel NBR algorithm provides higher sensitivity to positively differentiate between natural and man-made radiation during search and find operation and better detection performance against masked isotopes. Once an alarm indicates the presence of significant gamma radiation the RadEye SPRD can automatically switch into radionuclide identification mode for immediate analysis. The editable trigger list allows users to select nuclides of concern from a list that includes all in the ANSI N42.48 standard. Users may also define custom subsets based on their areas of interest such as medical or industrial applications.

The RadEye SPRD offers the next generation of NBR. The added fidelity of the new multi-channel NBR algorithm provides higher sensitivity to positively differentiate between natural and man-made radiation during search and find operation and better detection performance against masked isotopes. Once an alarm indicates the presence of significant gamma radiation the RadEye SPRD can automatically switch into radionuclide identification mode for immediate analysis. The editable trigger list allows users to select nuclides of concern from a list that includes all in the ANSI N42.48 standard. Users may also define custom subsets based on their areas of interest such as medical or industrial applications.

RadEye SPRD Kits

Arrive at the scene with a compact tool set for quick, efficient, and accurate radiation detection, nuclide identification and data management. The RadEye™ SPRD and SPRD GN Spectroscopic Radiation Detector KIT bundles a RadEye™ SPRD with a compact belt holster, easy to use hardware and software tools for PC-based data review and transfer, and a Lutetium Test Adapter for quick and reliable performance verification all in a compact, robust transportation case ideal for first responders and emergency response teams.

identiFINDER R225

The identiFINDER® R225 is a rugged, pager-sized Spectroscopic Personal Radiation Detector (SPRD). The R225 features a single 18mm cubic CsI detector with SiPM (G/GN) providing exceptional sensitivity and identification capability. There is also an option for an LaBr(Ce) spectroscopic detector (LG/LGN) for ≤3.5% resolution. The device features the familiar three-button control common to all identiFINDER products. The R225 provides ANSI N42.48 SPRD compliance, as well as MSLTD 810g Salt/Fog compliance.

The R225 comes with key features built on feedback of its predecessor the identiFINDER R225 including operating in multiple languages. The screen has been upgraded for increased brightness and added color to be visible in sunlight and through polarized sunglasses. The holster has been modified to provide quick access to the device and for the screen to be completely visible while holstered. The battery can operate for over thirty hours with hot-swappable backups and built-in Bluetooth, Wi-Fi, and GPS ensure remote data viewing.

New Features

- Relocated LEDs
- Multiple languages on-board
- Dual mode (PRD/SPRD)
- New holster
- Full integrated and controllable from radREMOTE app
- 1Hz data streaming capability
- 18mm3 CsI or LaBr crystal.
- Improved display is slightly larger; color and readable in sunlight.

GSA

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RadEye G/G-10

The RadEye G is a light-weight and very rugged instrument designed for quick and reliable measurement of gamma dose rates. Modern electronic circuitry guarantees excellent linearity over 6 decades of radiation intensity: from background level to 10 R/h - with overrange indication up to 1000 R/h. It incorporates a large energy compensated GM-tube for precise dose rate measurement for gamma and x-ray.

RadEye SX

The RadEye SX is a modern compact multi-purpose survey meter for external scintillator counter tubes. General count rate and surface contamination measurements can be performed as well as dose rate measurements. As part of the growing RadEye product family of high-end stand-alone meters, the RadEye SX is designed to exceed the most demanding user expectations. Due to the clear and large display all essential functions and software parameters can be easily accessed. The display and the alarm-LED can be seen while the instrument is worn in the transparent case.

RadEye GF

The RadEye GF is a light-weight and very rugged instrument designed for quick and reliable measurement of gamma dose rates. Modern electronic circuitry guarantees excellent linearity over 7 decades of radiation intensity: from background level to 300 R/h - with unlimited over range indication. The high-quality counter tube in conjunction with the nonmetal instrument housing allows detection and reliable measurements down to very low gamma energies - a crucial feature in respect to accidents involving medical isotopes or Am-241 (a component of smoke detectors).

RadEye PRD NL

The RadEye NL closes a gap in the classical product spectrum of the radiation measurement technology. Rem-Counters for neutron detection with a He-3 or BF3 tube are usually heavy and bulky since fast neutrons have to be moderated in order to be detected and to provide the correct neutron dose rate response. Low energy neutrons with their lower biological impact however have to be suppressed to a large extent. Thus the rather low sensitivity of Rem- Counters to pre-moderated neutrons can be explained.

RadEye GX

The RadEye GX is a modern compact multi-purpose survey meter for external Geiger Mueller counter tubes. General count rate and surface contamination measurements can be performed as well as dose rate measurements. As part of the RadEye product family of high-end standalone meters, the RadEye GX is designed to exceed the most demanding user expectations.

RadEye GN+

The Thermo Scientific RadEye GN+ Gamma Neutron Pager has a very high neutron sensitivity that exceeds the time-to-time requirements of ANSI 42.32 and IEC 62401. The RadEye GN+ pager incorporates a single highly sensitive scintillation detector equipped with a miniature photo-multiplier to detect very low radiation levels of both gamma and neutron radiation from any source.

RadEye G Ex

In emergency response and in industry flammable and explosive materials like gases, dust and fibers can occur. In such potentially explosive atmospheres it is necessary to use ATEX certified devices for your measurements. The RadEye G Ex radiation detector series comprises 4 versions of intrinsically safe handheld devices for gamma and dose rate measurements. They are designed according to the latest ATEX standards to meet the needs of their operator in and around hazardous areas.

RadEye G20

RadEye G20-10 / G20-ER10 X-Ray and Gamma Survey Meters for ambient equivalent dose and dose rate measurement are the perfect Geiger counters for nuclear industry personnel as well as civil defense, fire brigades, and hospital and pharmaceutical industry employes who work with radiation-emitting equipment. Designed to meet and exceed IEC 60846-1.

RDS-32

The RDS-32 Survey Meters are small handheld, battery operated radiation survey instruments. Due to its versatile functions and durability it is suited for a wide range of applications in civil defense, industrial use, nuclear power plants, laboratories, etc. The meter features excellent ergonomics; lightweight and easy handling, with visual, audible, and vibration functions. Each meter includes an additional battery cover with belt clip to make it wearable, freeing the user's hands to focus on their primary job.

With both Warning and Alarm levels users can know when they are approaching their limit without constantly monitoring their device and can act accordingly. To extend the capabilities of the instrument, a wide variety of external Smart probes are available to meet user needs with any RDS-32 version. GMP-12/GMP-25 probes, and the full CSP probe range can be connected to all RDS-32 versions with adequate cable. The selection includes probes for gamma and neutron dose rate and alpha and/or beta contamination with various detection areas and scaler counting.

UltraRadiac Plus

The potential threat of a radiological terrorism incident requires that first responders are equipped with a radiation monitor that is designed to address the radiation hazards they may face. The UltraRadiac-Plus is the perfect unit for first responders as it offers the small size and light weight needed to avoid interference with critical work while providing continually updated information to the wearer.

Most electronic dosimeters on the market were intended for laboratory use, and not for the rugged environments that first responders may encounter. The UltraRadiac-Plus – based on a US Military design – is a small, rugged, simple to operate radiation monitor that displays both the radiation levels and the total dose that is received. A large, backlit LCD display ensures that the unit can be read in any light conditions. Alarms are annunciated by a flashing display, loud audible signal and vibration of the unit itself, when user-set dose rate or total dose alarm levels are exceeded.

FC2B Calibration Device

Users of the FC2B Calibration Verification Device can now field-check calibration of their own UltraRadiac units, saving both time and money. Like most electronic devices, the UltraRadiac requires periodic calibration checks to maintain proper function. UltraRadiac users may wish to avoid the cost associated with factory calibration checks. The FC2B Calibration Verification Device is a low-level gamma radiation calibrator, which can be used to assure that current UltraRadiac response to dose-rate stays within ±33% of ideal calibration*. The FC2B checks each unit very quickly – typically in less than three minutes.

RDS-30 Survey Meter

The RDS30 is a digital handheld radiation dose rate meter designed for any number of applications involving the possibility of higher than expected or abnormal radiation levels. It is compact, lightweight and extremely user friendly. It is perfectly suited for radiation surveys in field conditions, the nuclear industry and for protection against radiological hazards by any user regardless of their level of radiation expertise. It's ruggedness and IP67 environmental rating make it the ideal choice for detecting and monitoring radiation in virtually any conditions by persons who may be exposed to gamma and/or X-ray radiation.

RDS-31

The RDS-31S/R Multi-purpose Survey Meter is part of the RDS family of RADOS survey meters and offers modern design and an advanced approach to radiation monitoring. The RDS-31 features outstanding ergonomics; it is lightweight and easy to handle with visual, audible and vibrating alarms.

The large LCD screen includes an automatic illumination control feature with an energy saving backlight that can be easily read in total darkness and in direct sunlight. To make the instrument even easier to use, the buttons can be configured with easy to understand Shortcuts. The Shortcuts allow the user a straightforward and simple way to configure the instrument for performing repeated operations such as the Manual Histogram, Sample Collection, Dose Value Display, and Diagnostics. In addition, to help the users to become accustomed to the Shortcut-function, a Visualization display function can be employed. Optional smart probes available for the RDS31 include the GMP11-3, GMP 25i , GMP 25 and GSD 12.

GMP 11-3

GMP 25i

GMP 25

GSD 12

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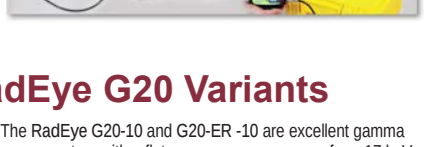
RadEye SX

The RadEye SX is a modern compact multi-purpose survey meter for external scintillator counter tubes. General count rate and surface contamination measurements can be performed as well as dose rate measurements. As part of the growing RadEye product family of high-end standalone meters, the RadEye SX is designed to exceed the most demanding user expectations.

Due to the clear and large display all essential functions and software parameters can be easily accessed. The display and the alarm-LED can be seen while the instrument is worn in the transparent case.



RadEye G20 Variants

The RadEye G20-10 and G20-ER -10 are excellent gamma survey meters with a flat energy response curve from 17 keV to 1.3 MeV according to ambient equivalent dose H*(10). The versions G20 and G20-ER are equipped with a different energy filter in order to yield an energy response for dose rate measurements in R/h.

FEATURES

- Light Weight (300 g), excellent grip with and without gloves
- Rugged and compact design, thick rubber protective cover
- > 500 h operation time with 2 AAA batteries – rechargeable NiMH-cells can be used
- Menu-driven user interface results in low training cost and immediate familiarity
- Huge internal data memory for both scaler results and continuous data recording
- Bright backlit LCD display – plain text messages - different languages can be selected
- Audible indication: single pulse or chirper mode proportional to count rate
- Earphone output for operation in loud environment

RadEye PX

The RadEye PX is a modern compact multipurpose survey meter for proportional counter tubes. General count rate and surface contamination measurements can be performed as well as dose rate measurements, typically with He-3 or BF3 based Rem-counters.

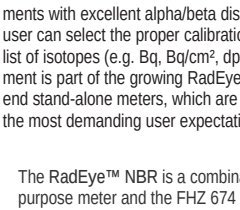
RadEye B20 Variants

The RadEye B20 is a modern compact multi-purpose contamination meter for alpha, beta, gamma and X-ray radiation. By virtue of optional gamma energy filters, deep or shallow dose rate measurements from 17 – 1300 keV can be performed. For emergency response purposes alpha and beta contamination can be discriminated using another optional filter. The instrument is part of the growing RadEye family of high-end stand-alone meters, which are designed to exceed the most demanding user expectations.

RadEye GX

The RadEye GX is a modern compact multi-purpose survey meter for external Geiger Mueller counter tubes. General count rate and surface contamination measurements can be performed as well as dose rate measurements. As part of the RadEye product family of high-end standalone meters, the RadEye GX is designed to exceed the most demanding user expectations.

RadEye AB100



The RadEye AB100 is a modern contamination meter for surface contamination measurements with excellent alpha/beta discrimination. The user can select the proper calibration factor within a list of isotopes (e.g. Bq, Bq/cm², dpm). The instrument is part of the growing RadEye family of high-end stand-alone meters, which are designed to meet the most demanding user expectations.

FEATURES

- Light weight , rugged and compact design
- 1,000 h operation time using 2 C batteries
- Menu-driven user
- Huge internal data memory
- Bright backlit LCD display –
- Different languages can be selected
- Easy adaptation to different tasks by supervisor configuration
- Audible indications
- Earphone output

The RadEye™ NBR is a combination of the Thermo Scientific RadEye SX multi-purpose meter and the FHZ 674 NBR detector. Even in case of large variations of the natural background during the search, very small contributions of artificial gamma radiation can be detected by a NBR detector (Natural Background Rejection).

RadEye NBR

Gamma View

The compact GammaView is light, easy to carry and Operate with a 1x1 Nal scintillation detector that accurately measures gamma contamination and exposure. Perfect for use in the lab, facility, and in the field. The GammaView can also be used as a single-channel analyzer (SCA). This function allows a "window" to be set to focus on a specific energy region of the gamma spectrum, effectively reducing the background count.

Observer Software

The Observer software runs on a Windows platform and can be used with the Inspector, and Geiger Radiation Monitors. As an option, any of our Radiation Alert® instruments can be modified to interface with the Observer.

Ranger & Ranger EXP

The Ranger offers maximum performance in a lightweight, rugged solution for using your survey meter at the facility, or in the field. Though designed for industrial environments, the Ranger has all the features you've come to expect in the lab. The Ranger is a small, handheld, microprocessor based instrument which offers excellent sensitivity to low levels of alpha, beta, gamma and x-rays.

The Ranger EXP offers maximum performance in a lightweight, rugged solution for using your survey meter in the field. The Ranger EXP has been designed specifically for individuals that are operating in harsh environments. The digital readout is displayed with a red count light and a beeper sounds with each count detected.

Radiation Frisker

The Radiation Frisker is a radiation contamination instrument that has been designed and developed to meet the ever increasing demands of today's radiation responder. By integrating the latest electronics with a proven and dependable GM (Geiger-Mueller) detector, the result is an ergonomic and ruggedized tool that addresses a diverse range of radiological applications.

By eliminating cables and the need for two handed operation, the Radiation Frisker makes the radiation contamination survey process easier than ever before. With a straightforward user interface and multi-mode operation, the Radiation Frisker is an instrument that is truly operable with one hand tied behind your back! Simple two button operation and an easy to read LCD screen allows responders with any level of radiological knowledge to quickly maximize the potential of this device. User configurable audible and visual alarms make the Radiation Frisker the ideal device for use in a full range of environments.

FH40- Survey Meter

The FH 40 G family of advanced digital survey meters is designed for many different radiation protection applications. The FH 40 G is rugged, lightweight, fits snugly in the palm of the hand and is easy to operate with large keys that enable users to wear gloves. Internal diagnostics ensure proper functioning of the detectors and the electronics. Alarm values are established for dose rate and integrated dose. When an alarm value is exceeded, an audible alarm is emitted. In parallel to the measured value display, an audible speaker can be activated to signal detector pulses. The FH 40 G models are designed to record up to 256 data points containing measurement number, date, time and dose rate at the internal detector and external detector, status, and barcode information.

FHZ 672 E / 672 E-10

For fast discrimination of natural and artificial gamma radiation. The FHZ 672 E consists of a special detector of 750 cm^3 organic scintillation material of integral line construction, voltage divider, high voltage generator, amplifier and discriminator thresholds and NBR process computer. The indication of artificial radiation is shown by LED on the probe, as well as visually in the display and audibly by the speaker in the instrument body.

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Monitor 200

The Monitor 200 measures alpha, beta, gamma, and x-rays. Its digital display shows readings in your choice of CPM, CPS, µSv/hr, mR/hr, or in accumulated counts. It has a digital display, a red count light, and a beeper that sounds with each count detected. Other features include an adjustable timer, and selectable alert. With the free Observer USB Software Family, you can set computer alarms, calibrate your instrument, and download your collected data from the internal memory for easy reporting.

Monitor 1000EC

The Monitor 1000EC measures gamma, and x-rays. Perfect for most applications requiring an energy compensated detector. Users can choose from readings of CPM, CPS, µSv/hr, mR/hr, or in accumulated counts. It has a red count light, a beeper that sounds with each count detected, and includes an adjustable timer, and selectable alert. The free Observer USB Software allows you to set alarms, select preferences, and download your collected data. The Bluetooth and Observer BLE for Android enables saving, sharing, and automation of surveys and RadResponder compatibility..

RC-2 Handheld Detector

The RC2 portable radiation detector has been designed to detect very low radiation intensity levels from radioactive materials buried in scrap metal. The RC2 is an extremely effective handheld detector that utilizes a large 32 cu. in. (0.54L) internal PVT plastic scintillation detector, a common material found in most larger vehicle monitoring systems. Operation of the RC2 is fully automatic and designed to allow fast and easy inspection of areas, containers or vehicles that may contain radioactive materials, or to verify or separate radioactive materials that have triggered an alarm on large scale radiation detection systems. The RC2 contains a state-of-the-art microprocessor and internal electric circuitry designed to automatically set the lowest achievable alarm level and to continuously monitor system operation in order to maintain consistent optimum performance.

RO-20AA Ion Chamber

The Model RO-20AA is a portable air ionization chamber instrument, used to detect beta, gamma, and x-radiation, with five linear ranges of operation to measure exposure from background to 50 R/h full scale.

The ionization chamber is vented to atmospheric pressure and is specifically designed to have a flat energy response into the x-ray region. The detector is fully temperature compensated, eliminating any need for temperature correction. A single rotary switch turns the instrument off, checks the batteries, checks the zero setting, and selects the range of operation. An ergonomically located switch illuminates the meter.

Fuji Model NSN3

The Fuji Model NSN3 portable neutron survey meter is very lightweight and small without polyethylene moderator. The energy response is improved using the spectrum weighting function. The NSN3 survey meter measures ambient dose equivalent and ambient dose equivalent rate of neutrons.

It is lightweight and portable at 4.4 pounds (2kg) it is ideal for a wide range of measurement requirements. It can use AC power and primary and secondary power options are applicable. It is equipped with USB drive function for data uploading, display measurement values and data management on a PC.

Teletector 6112M

The Teletector 6112M is a portable, battery operated dose rate meter designed to measure photon radiation (gamma and X-radiation), and to detect beta radiation. Two GM counter tubes serve as detectors. The stainless steel telescope can extend up to four meters and its tip carries the two tubes. The tubes are placed along the axis one behind the other; a groove marks the center of each tube. The low End tube detects beta radiation and together with the high end tube the Teletector covers a dose range from 10 µR/h to 1000 R/h (0.1 µSv/h to 10 Sv/h), where it automatically switches between the two tubes.

Tracerco T406

The T406 X-Ray Monitor provides the enhanced sensitivity and energy response necessary to measure radiation rate and dose from x-ray and gamma sources. Designed to measure leakage and scatter around diagnostic x-ray and radiation therapy suites, the T406 is very well-suited for a wide range of end users. With its energy compensated GM tube, the T406 can be shipped and transported without the restrictions and limitations associated with pressurized ion chamber devices. Robust, reliable and user friendly make the T406 the ideal solution for X-ray monitoring applications.

Tracerco T401

The Tracerco™ T401 Contamination Monitors are non-intrinsically safe contamination instruments, which stand out by combining high level functionality with environmental tolerance to provide highly cost-effective technology where intrinsic safety is not a consideration. Part of the TRACERCO collection of radiation monitors, the T401 Contamination Monitors are particularly suited to the detection of radioactive contamination which can arise in a variety of industries where man-made or naturally occurring isotopes are processed. This includes in the nuclear power, land remediation, research and development and medicine fields. All of the TRACERCO™ T401 Contamination monitors have been designed to meet the challenge of combining operational reliability with excellent sensitivity.

Tracerco NORM Monitor IS

An intrinsically safe, weatherproof monitor with dual probe capability - the ultimate tool for obtaining accurate NORM Measurements in hazardous areas or difficult conditions.

The Tracerco™ NORM Monitor-IS allows users to monitor wet and dry NORM in a variety of situations. Its unique, intrinsically safe design incorporates different probe options to make it the optimum measurement tool. The NORM Monitor-IS Handset is available to purchase with a Scintillator Probe, a GM Probe, or Dual Probes as the NORM Monitor Kit.

NORM Monitor-IS KIT - Handset with dual interchangeable probes, supplied in a ruggedized case complete with carrying harness

NORM Monitor-IS GM - configured for one-handed operation with removable GM Probe (replacement for the award winning Tracerco T201 Contamination Monitor)

NORM Monitor-IS SCINT - Handset and Scintillator Probe supplied in a transit case complete with carrying harness Both probes have built in calibration data, so they can also be purchased separately and calibrated without the handset

Tracerco T402

The Tracerco T402 is a non-intrinsically safe dose rate monitor that provides an alternative to the TRACERCO™ T202 . The instrument has been engineered for use in a wide variety of industrial applications where the presence of radioactive materials creates the potential for individual exposure and establishes a requirement for dose rate monitoring. It has fast response and excellent sensitivity and additional key operational features such as personal dose integration and peak dose rate memory. The TRACERCO™ T402HR Dose Rate Monitor has the same ease of use and functionality but features an extended range.

Tracerco T202 Intrinsically Safe

The Tracerco™ T202 Radiation Dose Rate Monitor has been specifically designed to combine intrinsic safety with ruggedized but lightweight construction and provides additional key operational features such as personal dose integration and peak dose rate.

Radioactive materials are employed routinely in industry to facilitate a wide range of measurements including Process Level Control, Fluid Separation and Non-Destructive Testing. In order to protect the workforce from exposure and to ensure compliance with relevant legislation, radiation dose rates must be carefully monitored and con-

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identiFINDER R425, G/GN/LG/LGN

The FLIR identiFINDER R425 is the next generation of the most deployed radionuclide identification device (RID), offering 360-degree coverage so you can locate and measure radioactive sources with confidence. It builds on FLIR's trusted algorithms with advanced heuristics and hybrid identification techniques. With the familiar identiFINDER user interface and 3-button control, you can operate the R425 quickly, communicate results, and take command of any situation, in any environment, remotely. When other systems fail in extremely high gamma fields, the FLIR identiFINDER R425 provides pinpoint accuracy and remains fully operational.

The identiFINDER R425 goes the distance with balanced ergonomic design, unparalleled ruggedness, flexible power management, and usability. The R425 provides an ideal balance of size, weight, and performance for various missions including surveying, emergency response, and environmental monitoring. A new single cubic detector design, sourceless stabilization, advanced heuristics, and hybrid identification techniques enable the FLIR identiFINDER R425 to deliver high-performance detection in all directions. It delivers three times the gamma and two times the neutron sensitivity of currently-fielded systems, so responders can detect radiological threats from farther away and behind heavier shielding.

identiFINDER R425 UW

The identiFINDER R425 UW builds on the legacy and capabilities of the identiFINDER R400 and identiFINDER R425. Combining the powerful sensing capabilities of the R425 with underwater operation and ruggedness of the R400.

The R425 UW is IP 68 rated to a depth of 20 meters (66 feet) and is MIL STD 810G (Salt Fog) compliant. It is three and a half times more gamma sensitive and more than two times more neutron sensitive than its underwater predecessor, the R400. The cubic detector provides all round detection capability and optimal angular dependance, ensuring an accurate dose rate, across the entire energy range, even from an angle! This ensures that nothing goes undetected, even underwater.

Operate the R425 UW quickly with the familiar identiFINDER user interface and 3-button control and Teledyne FLIR's trusted algorithms with advanced heuristics and hybrid identification techniques. The R425 UW provides an idea balance of size, weight, and performance in any environment, even underwater.

identiFINDER R225

The new FLIR identiFINDER R225 is a rugged, pager-sized Spectroscopic Personal Radiation Detectors (SPRD). They provide full ANSI N42.32 Personal Radiation Detector (PRD) compliance and feature next-generation solid state detector read-out technology that delivers ANSI N42.48 SPRD compliance with nuclide identification. The R225-G detects gamma radiation and the R200-GN additionally provides neutron detection capability. The OneTouch Reachback™ feature uses the latest advancements in Bluetooth® and web server technologies to provide large-scale situational awareness by alerting others before arriving on scene. The clear user interface and simple data presentation common to all identiFINDER products allow the R225 to quickly integrate with existing operational protocols and

New Features

- Relocated LEDs
- Multiple languages on-board
- Dual mode (PRD/SPRD)
- Full integrated and controllable from radREMOTE app
- 1Hz data streaming capability
- 18mm3 CsI or LaBr crystal.
- Improved display (slightly larger); color and readable in sunlight.

GSA

identiFINDER R440

The FLIR identiFINDER R440 is a lightweight, sourceless radionuclide identification device (RID) that delivers sensitive detection and fast results for routine survey or secondary screening response missions. The 2x2" NaI (sodium iodide) detector responds to radiological threats from farther away, behind heavier shielding, and with better resolution than similarly-sized RIDs. The extended energy range provides neutron indication. Its light weight makes single-handed operation easy during extended operations, while the IP67-rated enclosure is built to survive. The bold, easy-to-read interface with 360° EasyFinder™ mode expedites decision-making to keep personnel and the community safe.

The R440 detects radiological threats from farther away, behind heavier shielding, and with better resolution than similarly sized RIDs. Drop-tested to 1m, it boasts a completely enclosed crystal, and IP67-rated enclosure that protects against dust and water immersion up to 1m.

SPIR Ace

The SPIR-Ace is a versatile Radionuclide Identification Device (RID) addressing all applications requiring efficient detection and identification of radiological threats in security applications, including civil defense, border security and customs. The SPIR-Ace can be used by in law enforcement, emergency response and other critical infrastructure applications. It also provides accurate assessment of nuclear materials for power plants, safeguard inspection, forensic laboratories and OSI/CTBTO agents. The SPIR-Ace offers identification performance beyond current standards for RIDs such as for heavily shielded isotopes, unbalanced mixtures of nuclides and Special Nuclear Material (SNM) masked by medicals or Naturally Occurring Radioactive Material (NORM) within a few seconds.

VeriFinder Responder

Equipped with Symetrica's cutting-edge detectors, known for their exceptional sensitivity and precision, and enhanced by Symetrica's innovative Discovery Technology® , the VeriFinder Responder ensures accurate identification of gamma and neutron radiation sources, guaranteeing comprehensive threat detection in real-world scenarios. Where similar instruments may falter, the VeriFinder Responder excels. Its user-friendly interface offers real-time feedback and analysis, empowering operators to swiftly assess radiation levels and pinpoint potential threats with confidence. Moreover, it maintains operational accuracy even under temperature fluctuations.

identiFINDER R400

The FLIR identiFINDER R400 is a logical extension of the original identiFINDER series of handheld radioisotope identification detector (RIID) instruments. The spectrum is continuously LED peak stabilized to handle a wide range of count rates and conditions with no peak interference in the identification spectrum. Wired communication uses a micro USB connector, USB 2.0, or wireless via a Class 2.0 Bluetooth© interface, with a 33 ft (10m) range, which supports the reach-back capability, also provided. A Web interface is provided via USB emulated TCPIP (LAN) for monitoring and configuring the identiFINDER R400. A twelve channel, Sirf III GPS is included for incident location. Data storage has been enlarged to 1 GB to save more spectra and event information.

SPIR-ID LT

The SPIR-ID LT is an advanced Radioisotope Identifier (RIID); its "on-the-fly" identification capability makes it the fastest and most effective handheld instrument on the market for interdiction and inspection missions.

The SPIR-ID LTs performance exceeds all current RIID standards (ANSI N42.34 and IEC 62327) for criteria such as identifying heavily shielded sources, unbalanced mixtures of nuclides, and Special Nuclear Material (SNM) that's masked using medical or Naturally Occurring Radioactive Materials (NORM).

It is suited for all applications that require efficient detection, search and identification of radiological threats (Radiological Dispersal Devices or RDD), including civil defense, customs & border protection (illicit trafficking of radioactive materials) and emergency response situations.

RIIDEye X/M

The Thermo Scientific RIIDEye™ detects and identifies radiation present in the environment and gives users feedback on where the radiation is, what type and how much. It is the only RIID with real time spectra build to allow users to optimize identification during the scan which leads to faster scans, more confidence that measurement was accurate and the ability to add scan time based on real time results.

The RIIDEye offers identification speed with high accuracy. Allowing more scans, faster results in situations where rapid decisions need to be made. With patented QCC technology, it provides real time gamma source identification and improved quality of isotopic IDs.

The RIIDEye is ergonomically engineered for single-grip operation and weight balanced for comfortable usage, even in long-term use scenarios. The RIIDEye is an intuitive instrument to operate. With a large, illuminated color interface and simple, raised button design, it can easily be used by personnel with little experience in radiation measurement - providing identification "at a glance."

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SYCLONE G/GN

The SYCLONE is a highly sensitive handheld Gamma-Ray spectrometer capable of identifying single or multiple isotopes simultaneously. The SYCLONE also provides the user with various functions such as Search and Find, Optional Neutron Detection, Rate Meter, Nuclide ID, Dose Rates and accumulated Dose. The SYCLONE Gamma-Ray spectrometer utilizes the highest quality Thallium doped Sodium Iodide crystal, combined with an integral high signal to noise ratio PMT and state-of-the-art electronics and embedded microcontroller firmware. All of these enhanced features allow the SYCLONE to be one of the most accurate portable Gamma-Ray spectrometers when it comes to identifying specific and/or multiple isotopes even with weak gamma sources. The mechanical assembly of the SYCLONE is robust and designed for field applications where harsh environments are commonplace. The SYCLONE operating system utilizes sensible easy to read and follow Menus. The multi-position joystick and large LCD backlit display provides easy navigation through menu selections. Detailed spectral information is clearly and precisely displayed so knowledgeable users have the ability to visually identify peaks in the histogram. Various on-screen messages assist the user when immediate attention is required for issues such as preset timing, high radiation levels, alarm settings and warning messages.

MSpec G/GN

The MSpec portable fast responding gamma and gamma/neutron spectrometer and dose rate meter will instantly measure any material for the presence of radioactivity whether it is general waste, medical waste, scrap metal or recycled material. Operation of the MSpec is completely automatic once the easy-to-set operational parameters have been selected. Simply position the unit in close proximity to the object that needs to be scanned and listen for the varying audio alarm to sound and/or the displayed readings to increase. The MSpec scans suspect material and quickly analyses to determine if and what radio-isotope is present then further categorizes the result as Medical, Industrial, or Natural Occurring Radioactive Material (NORM).

The user selectable readout on the instrument display will show the desired units of measure such as Counts per Second (CPS), Dose-Rate (Sv/h, R/h) or Accumulated Dose (Sv/R). The MSpec stores all results in a record which can be downloaded via USB into the user-friendly RadComm MSpec software for information archiving and further data manipulation and analysis. Reports can be saved in Adobe® PDF format and emailed via user's PC. Remote service diagnostics and software updates of the MSpec are also achieved by utilizing the RadComm software.

RadEye SPRD & SPRD GN

The RadEye SPRD provides first responders and law enforcement teams like border guards or special forces with high performance detection and radionuclide analysis for any scenario. Metal recyclers and producers that need to detect, locate and identify orphan radionuclides in their incoming scrap material can now add an additional level of security, using the RadEye SPRD.

The ability to perform nuclide identification in a pager sized Personal Radiation Detector (PRD) offers advantages over current market options; including, compact size, low weight, long battery life time and low cost. This combination makes the RadEye SPRD a perfect tool for users detecting, locating and identifying sources of radiation as an secondary requirement of their main task.

GSA

Natural Background Rejection NBR is a technology used to eliminate fluctuating natural background levels while measuring radiation. This proprietary and patented technology is used to quickly differentiate between natural and artificial radiation by stripping away any natural background radiation that is registering, delivering you a more accurate result of artificial radiation levels.

The RadEye SPRD offers the next generation of NBR. The added fidelity of the new multi-channel NBR algorithm provides higher sensitivity to positively differentiate between natural and man-made radiation during search and find operation and better detection performance against masked isotopes. Once an alarm indicates the presence of significant gamma radiation the RadEye SPRD can automatically switch into radionuclide identification mode for immediate analysis. The editable trigger list allows users to select nuclides of concern from a list that includes all in the ANSI N42.48 standard. Users may also define custom subsets based on their areas of interest such as medical or industrial applications.

The SPRD is ideal for primary inspection of its surroundings and provides basic secondary inspection, allowing users to quickly adjudicate the most common alarms such as distinguishing medical patients from RDDs or crates of bananas from orphaned sources. Law enforcement officers can take advantage of its small, wearable size and its affordability to provide a sensitive and significant network of sensors to locate radiation. Rapidly determine identity and type of radiation, providing key information faster to determine if HAZMAT or CBRN teams are needed.

identiFINDER R700

The FLIR identiFINDER R700 Backpack Radiation Detector (BRD) offers a hands-free capability for broad area radiological search and monitoring missions. The identiFINDER R700 provides the user all that is required to successfully perform wide-area searches quickly, efficiently and confidently. Providing the ultimate versatility, the identiFINDER R700 can be placed for stationary monitoring at makeshift checkpoints, fence-line monitoring, and other temporary screening locations. When coupled with radiation monitoring software, the identiFINDER R700 can be used as a fixed-site monitoring tool.

Building on the award-winning identiFINDER R440, the R700 offers an advanced spectroscopic algorithm and detection techniques scaled up to a man portable backpack for increased sensitivity and speed. The R700's capabilities configured as a backpack or a stationary device allow multiple mission sets from wide area searches to temporary check points. Providing critical information to decision makers quickly is essential. The R700 provides the capability to do so in real time and on demand.

MUVE 430

The FLIR MUVE R430 is a radiation detector designed for unmanned Aerial systems (UAS) used to detect, locate, measure, map, and identify radioactive sources from above. The SkyRanger® R70 and SkyRanger® R80D serve as the airframe for the R430. The R430 is integrated into the R70 and R80D's Mission Control Software (MCS) providing visible and audible alerts that expedite response measures. The R430 provides a balance of size and weight for various situations including emergency response, environmental monitoring and surveying.

The MUVE R430 brings the pedigree of the identiFINDER series of best-selling radionuclide identification devices to the sky. Utilizing the same, familiar interface the R430 can go quickly perform assessments in hard-to-reach places and environments while keeping the operator at a safe distance. The MUVE R430 uses the same tried and trusted detection and spectroscopic algorithms as the other identiFINDER instruments, providing detection and identification of radioactive sources you can trust .

SPIR Pack

Mirion's SPIR-Pack is ideal for all applications requiring the efficient detection and identification of radiological and nuclear threats. Of primary importance, these applications include the protection of large public events, as well as providing superb capabilities for radiological/nuclear interdiction.

The SPIR-Pack is lightweight, comfortable to carry, and durable, with a long battery life for extended field operations. The SPIR-Pack system includes sensitive detectors that connect to a smartphone. Because it alarms only in presence of radioactive sources (not on background variations), the smartphone can simply stay in the user's pocket (or other carrying accessory) until vibration and/or audible alarm indicates the presence of a source. The full-featured smartphone app provides dose rate, nuclide identification and an innovative Radar screen to indicate the direction of radioactive sources returned. Users also appreciate the fact that the SPIRPack uses the same app as the SPIR-Ace, greatly simplifying training and making it easy for users to use both instruments.

FHT 1377 GN-PackEye

The Thermo Scientific FHT 1377 GN-2 PackEye provides survey teams with a tool for effectively addressing the problems of orphaned sources, radiation contamination, and sources for malicious intent. By virtue of the proprietary NBR-technology (Natural Background Rejection) extremely low contributions of artificial gamma radiation are quickly detected, even with larger fluctuations of the natural gamma background radiation. The NBR measurement method has been developed by Thermo Fisher Scientific for extremely fast discrimination between natural and artificial gamma radiation.

Unlike conventional spectroscopic based gamma identification systems, the systems using NBR do not require the presence and resolution of gamma spectral peaks, and unlike Sodium Iodide detectors, NBR detectors are stable at varying temperatures and for many years of real field use, with no regular re-optimization or stabilization with sources required. Because of this flexibility, NBR can also definitively distinguish artificial high energy beta sources and heavily shielded gamma ray sources from fluctuating natural background sources. Thus alarm levels in the order of 1 µR/h are achieved for SNM or heavily shielded industrial sources in outdoor environment. Such sources may be used in Radiation Dispersal Devices (RDD's) known as "dirty bombs". Artificial gamma radiation sources are identified in seconds by operators with basic training levels. Presence of artificial gamma radiation is simply indicated by a red flashing light and an audible alarm.

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SPIR-Ident Mobile System

FEATURES

- Very sensitive nuclear detection and real-time identification
- For mobile use: car, boat, helicopter or airplane
- Potential radiological threat search with Homeland Security algorithm
- After event contamination mapping
- Versatile configuration 1 to 4 detectors, 2 to 16 liters NaI(Tl)
- Rugged detection case and wireless tablet PC
- GPS and mapping function

SPIR-Ident Mobile System, is a movable radiation monitoring system, developed for vehicle, helicopter and aircraft use. It is a ruggedized and friendly deployable equipment with the higher existing capability for both detection and identification of radioactive sources.

This system especially allows to detect artificial gamma isotopes among varying natural isotopes when used as an airborne or vehicle borne system for the purpose of contamination evaluation and unattended source search.

URSA II

Ideal for laboratory applications!

The URSA II, with a full-featured MCA program, can be used with practically any radiation detector and can extract any data your detector can supply! It has been designed taking into account comments and requests from our current URSA customers. URSA-II MCA, the all-new fully, quantitative Windows™ based URSA-II software package has been designed for ease of use in a 32-bit Windows™ environment. Software also includes URSA-II for PPC software to run the URSA-II using a Windows Mobile™ Device (Jornada, iPAQ, TDS Recon, etc.) running Windows CE™ or Windows Mobile™. The Software can be installed on as many computers as you like, with no restrictions and includes free software updates.

NUC-ID Kit Featuring the URSA II

Disc Sources and Kits

These sources are supplied as one inch plastic discs. With the exception of the alpha source, the small quantity of radioactive material is sealed in the plastic with epoxy to prevent leakage and contamination. The transmission window is sufficiently thin to transmit both beta and gamma emissions without undue absorption. The alpha source is of open window construction with the source material bonded to the surface of a silver foil mounted in the recess of the plastic disc. This design yields excellent emission of alpha particles without window losses. Many sources are and of nominal activity to provide a safe, yet inexpensive supply of radioactive material for educational and commercial use. Calibrated sources are also available, please call for more options.

RSS-2—GM Resolving Time Set; This set is used for determining the resolving time of GM Counters. It consists of three half discs, two of which contain 5 uCi of Tl-204 plus a third half disc with no activity. The count-rate of each half disc plus the blank (to maintain constant geometry) is measured and then both active half discs are combined for a measurement with high count-rate.

RSS-3—The RSS-3 contains 1 each Po-210, Sr-90 and Co-60 emitting a range of alpha, beta and gamma radiation's. This set is ideal for demonstration and introductory nuclear labs covering basic characteristics of radiation.

RSS-5—Containing 1 each Cs-137, Co-60, Sr-90, Tl-204, Eu-152 and Po-210, the RSS-5 provides a wide of alpha, beta and gamma emissions making it a popular choice for nuclear science instruction The set contains two beta emitters, two beta/gamma emitters and one alpha source for in-depth studies of radiation.

RSS-8—Designed for gamma spectroscopy, the RSS-8 contains eight different gamma emitting isotopes covering the entire energy range from 32 to 1333 keV. Also included in the set is a mixed source of Cs-137 and Zn-65 which students may use to identify an "unknown" isotope. The set consists of Ba-133, Cd-109, Co-57, Co-60, Cs-137, Eu-152. Na-22 and Cs/Zn.

RSS-8 EOD—Uniquely configured for EOD and DNDO applications. The RSS-8 EOD variations contain consists of 1uCi Ba-133, Co-57, Mn-54, Cd-109; 0.5uCi Cs-137, Na-22 and Co-60; 0.1uCi Cs-137; PRND Training Kit: Includes-1 of each of the following-1 uCi each-Ba133-EU152-Cs137-Na22-Mn54-Co57-Co60-Cd109

Cs-137—Cs-137 sources available in activities up to 10 micro curies

AM-801

The AM-801 Portable Portal monitor assembles simply in less than five minutes. It comes with Voice Operational Commands, Full Color Touch Sensitive graphics panel, and Auto Cal for Maximum Sensitivity. The audible and visual alarms meet or exceed FEMA's sensitivity requirements of 1uCi or less Cs-137 detection.

The AM-801 is the only portable walk-through monitor with voice commands, making the monitoring and decontamination process much easier for the technician and the public. This also the only device of this type to boast a full 36" (91 cm) interior pass-through width to accommodate wheelchairs and stretchers.

It boast a full color touch sensitive graphics readout making it easy to set up and operate. It features auto calibration (for maximum sensitivity), audible and visual alarms, diagnostics, 120 vac w/10hr battery backup. The AM-801 is also available with optional printer and VH-1 Vehicle Monitor Kit.

ADA COMPLIANT

PM-12

The PM12 utilizes eight identical large gamma-sensitive plastic scintillation detectors to monitor personnel passing through the portal. Traffic flow can be either direction. Three detector assemblies are located in each side of the portal, with additional detectors to monitor the head and feet. The PM12 maintains the simple operation of its predecessor the PM7. In its basic form no keypads or complicated displays are necessary. The only user control is an alarm acknowledge switch, which is used to silence the audible alarm after contamination has been detected. The operational status of the portal is clearly indicated by a set of vertical system indicator lights located on both sides of the portal frame.

A human silhouette, located on the right hand side of the portal frame, indicates which of the eight detector zones are "contaminated" thus aiding in localizing the contamination on an individual. The monitor will utilize double detector and triple detector sum-zones for monitoring of low level distributed activity. Voice commands may be utilized to help with the positioning of the user .

Guardian TPM-905

The Guardian TPM905 is a field-proven, highly reliable system for the detection of radioactive sources such as medical, industrial, and special nuclear materials (SNMs), making it ideal for security applications and in hospitals, laboratories, and other locations where radioactive materials and sources need to be monitored. The optional vehicle monitoring kit expands its applications, and allows users to configure the system to their specific concept of operations.

The Guardian TPM905 is designed for indoor or outdoor installations and can be set up and operational in 15 minutes. It consists of three main components: two vertical pillars that contain highly efficient plastic scintillator detectors, a crossover pillar, and the controller. The attached numeric keypad alarm with LCD display provides both audible and visual alarm indicators as well as parameter management.

The Guardian TPM905 is compatible with RAVEN™ communications software to capture and display data and video images relating to a radiological detection incident. It is also compatible with our RadViewer application that supports wireless status monitoring of one or more systems simultaneously, providing increased throughput and records management.

PM-700

The PM700 automatically scans pedestrian traffic without the need for frequent calibration. They are intended for applications where the relatively low energy emissions from 235U and 239Pu are the main concern. They are currently in use at uranium enrichment plants, weapons manufacturing plants, weapons storage sites, nuclear laboratories, nuclear waste disposal and storage sites where detection of Special Nuclear Materials (SNM) is essential.

The TSA PM700 monitor is a stand-alone pedestrian radiation portal monitor (RPM) with excellent sensitivity and reliability. The PM700 large detectors and unique detection algorithm improve its performance to the point that it can achieve ASTM Standard C 1169 Category III* sensitivity for SNM. All of the essential components are contained in the pillars; radiation detectors, controller, and occupancy detector. The system operates from an internal battery. The battery is constantly charged from the site's AC line during normal operation. In the event of a power outage, the battery permits continued operation for at least 12 hours. Selectable settings for sensitivity, energy discrimination, and fault levels may be entered by the administrator.

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IPCM-12 Walk-Through RPM

The iPCM12 takes contamination personnel monitoring to a new level. The unique sculpted geometry utilized in the Thermo Scientific PCM2 is combined with the serviceability of the Thermo Scientific IPM9 and the breakthrough electronics of the Series 12 monitors.

Thermo Scientific iPCM12 utilizes 21 gas detectors in monitoring the body, hands, and feet. The detectors are split into 4 detection zones to minimize the background during monitoring, and achieve the best detection limits. Two optional detectors can be mounted to monitor the side of the foot and the top of the head. The very best geometry is ensured, with sprung detectors making contact with the arm and the top of the shoe. Sum zones may be applied across all detectors, providing at least 250 zones per measurement and counting channel.

Rad-DX

The Rad-DX operates on the new and exclusive D-Tect SensorNet; an automatic communication network that allows users to monitor a full network of Rad-DXs as long as they are in range of a single Rad-DX system (up to 1000 meters)! The Rad-DX units will automatically form an intelligent, self-healing mesh network, allowing them to be constantly connected to each other as well as to the user network.

Each Rad-DX can be controlled and monitored by a PC on the network or cross the internet on any Tablet or remote PC. 128 -bit encryption protected. Monitoring can be real-time or past event logs can be reviewed.

Monitor all the Rad-DXs on a floor plan, within a facility or on wide area map. The display provides an intuitive understanding of the location of the devices and can track the motion of a radioactive source. Dose rates can be viewed in multiple graph formats. The Rad-DX is ideal for security and infrastructure protection applications – waste management – hospitals – industry – or any location where accurate, versatile and economical radiation monitoring is needed.

DRM-3000 Area Monitors

The DRM-3000 is a compact area radiation monitoring system offering unparalleled features for stand-alone or wireless area monitoring. The DRM is a portable or fixed position device for monitoring of perimeters or boundaries and quickly identify changing radiological conditions. With enhanced sensitivity, the DRM-1D is ideal for radiological monitoring in medical facility emergency rooms, incident site decontamination tents, etc. The optional Display Unit allows the user to monitor the device from a remote location with visual and audible alarms. The versatility of the DRM provides for easy deployment on emergency response vehicles. The DRM can be configured for wireless (FHSS) transmission of radiological data or other communication process (air card, satellite,

AMP-50, 100, 200, 300

The AMP Area Radiation Monitors are designed with specific applications in mmind. More importantly, since the probe's sensitive electronics are located far from the high field (25 to 350 feet away), they are not subject to destructive gamma exposure. Thus the probe head may be located near a filter cube, rad waste stream, resin tank, or even inside the fuel pool (to take advantage of waterproof characteristics) having a longer life expectancy.

AMP-50; Medium to low dose rate fields, AMP-100; High range and waterproof, AMP-200; Extra high range and waterproof, AMP-300; Very high range.

Rad-Alert Area Monitor

The Radiation Alert Radiation Area Monitor uses state of the art touch screen technology and a stream lined design to create one of the most user friendly area monitors available. The user interface is an intelligent graphics display system featuring an integrated resistive touch screen, an easy to read five digit LED display, warning indicators for low and high radiation alarm levels, low battery, and instrument failure.

Calibration parameters are accessed by a safely recessed push button. A Calibration Settings screen displays a function menu that allows the user to set high voltage, threshold, dead time correction, network IP address, units of measure, USB and Ethernet communication, and calibration constant. The touch sensitive sliding scale makes adjustments simple. Parameters are stored in memory even when power is disconnected. Batteries provide up to 10 hours of backup power. The Rad-Alert Area Monitor is available in multiple internal and external detector configurations.

Mini Rad-V G2

Recognizing elevated radiation levels and detecting radioactive materials has never been easier. The ultra sensitive Mini Rad-V vehicle mounted radiation detector takes the proven performance and reliability of the Mini Rad-D and Rad-D technology to new levels for first responders and those concerned with discovering unwanted radioactive materials. the Mini Rad-V will give the occupants of the vehicle an instantaneous alarm (< 1 second) when the radiological conditions minimally exceed normal background levels. Although the Mini Rad-V constantly calculates and updates the background conditions, the end-user does have the option of manually adjusting for higher than usual radiation environments.

GammaTRACER Spider

The autonomous GammaTRACER Spider gamma probe is specially designed to cover the needs of first responders in an emergency scenario. Based on the proven GammaTRACER design, the probe provides reliable measurement of the gamma dose rate and wireless data transmission to the crisis center by using SkyLINK/ShortLINK radio or Iridium satellite modem. The compact design and innovative self-erecting enclosure facilitate deployment and minimize time, particularly important for emergency use and roll-out in contaminated area. The probe can simply be dropped out of a vehicle or pushed out through a lock or outlet. Thus, exposure to personnel can be significantly reduced. Alternatively deployment by a remote controlled drone or by parachute is possible.

RadEye PRD Area Monitor

LAURUS offers the Thermo RadEye PRD Radiation Area Monitor for radiation monitoring and radiation detection. The RadEye Area Monitor is based on Thermo Scientific's RadEye family of personal radiation meters. The RadEye was developed in response to a growing need for smaller, more compact detectors which have even more sensitivity to unwelcome radioactive sources. The wall mounted RadEye Area Monitor extends the application range to convenient and cost-effective gamma and neutron area monitoring. In case of exceeding a preset threshold the system sets off an audible/ optical alarm and the RadEye can be immediately used as a portable instrument..

FHT6020 Area Monitor

Nuclear facilities need accurate, reliable, sustained early warning of radiation leaks. The Thermo Scientific™ FHT 6020 Area Monitor Display and Alarms offers maximum reliability for permanent operation within nuclear facilities or environmental networks with up to 16 measurement channels that can process and display data from Thermo Scientific intelligent dose rate probes, FH 40 G series probes as well as analog or digital input. All channels can be operated simultaneously, along with audible and visible alarms, to measure and assess the level of gamma and neutron radiation.

FLIR identiFINDER S900

The FLIR identiFINDER S900 is an autonomous sensor that delivers real-time radiation detection and identification. It detects the presence or movement of radioactive material across borders, into buildings, at large public gatherings, and events. It uses the same advanced template matching algorithms as the industry-leading identiFINDER® R-series to separate innocent material, such as medical patients, from threatening sources – a unique feature not offered by other area monitors. identiFINDER S900 units are available in a wide variety of form factors that can be tailored to application-specific environments and sensitivities. Deployment can begin with a standalone system and expand to include a network of systems as needs change.

RadHalo

The Thermo Scientific™ RadHalo™ RDP and FM detect and identify gamma and neutron radiation as well as provide accurate dose rate capability. With multiple configurations available RadHalo can adapt to any situation and budget from special event monitoring to rapid response for a nuclear power accident. RadHalo's powerful processor runs simultaneous high accuracy dose rate and identification algorithms for high confidence measurements, whether you are monitoring radiation levels in a normal or emergency situation or whether you are using RadHalo to adjudicate a radiological alarm at a sporting event. RadHalo can be configured to monitor and provide dose rate and count rate values and if an alarm occurs, it provides an automatic identification which is ideal for a security function.

Contact Us for GSA and Quantity Pricing

RC2W34-2

The RC2W34 Waste Radiation Detection *System* is a precise and innovative instrument specifically designed to detect radioactive material in a moving vehicle containing waste and scrap. The revolutionary design of the RC2W34 incorporates 20 years of engineering design and proven field application experience. The RC2W34 incorporates state-of-the-art components and software. The end-user will have a clear understanding of the RC2W34 operations without a background in computer science or physics.

RC4138 RadLink

The RC4138 RadLink Radiation Detection System, is a finely-tuned, revolutionary, instrument that has been specifically designed to detect radioactivity contained in a moving vehicle and cargo. The revolutionary design of the RC4000 series incorporates more than 20 years of engineering design and proven field application experience. The RC4000 series system with its direct replacement for He-3 Neutron detector was recently tested by Oak Ridge National Laboratory for the ITRAP+10 (2013-2014) / ANSI N42:35 (2006) with excellent results.

RC-Pedestrian

The RC-Pedestrian radiation detection system has been designed to detect gamma and/or neutron emissions. The RC-Pedestrian is easy to operate by performing dynamic measurements of pedestrians that pass in front of the detector. The RC-Pedestrian is ideal for nuclear power plants, homeland security and industrial applications.

The pedestrian detection system utilizes real-time statistical algorithms that are based on gamma energy distribution to ensure alarm thresholds levels are optimized. The RC-Pedestrian utilizes a user-friendly graphical interface allowing the operator to easily navigate through the wide range of options. The system uses different colors to notify the operator about its current operation. All the detailed Clean Scan, Testing and Alarm records are stored on the internal hard drive and can be easily retrieved and reviewed

VM250 AG/AGN

The VM-250AG vehicle portal monitor consists of two self-contained, weather resistant pillars placed on either side of the roadway to be protected. Each pillar contains two organic plastic scintillator detectors, an occupancy detector, and an amplifier/controller. The master pillar also has a battery, power supply/battery charger, and an SC-770 system controller. The VM-250AGN adds neutron detection capability to the basic VM-250AG. Both are equipped with RS-232 and Ethernet communications capability. The VM-375AG system (not shown) is essentially a VM-250AG with a third pillar positioned horizontally between the two upright pillars. The third pillar can be mounted above or below the other pillars. The VM-375A provides improved sensitivity over the VM-250AG.

RC17 Watchdog

The RC17 WatchDog Radiation Detection System was designed specifically for the scrap and recycling industry to provide the absolute highest level of radioactive source detection in real-time for small to medium size weigh scale applications. RadComm Systems is a leading provider of innovative, radiation detection solutions for the Recycling industry. For more than 20 years, RadComm has been supplying the cutting edge and industry-leading radiation detection systems designed and developed exclusively for the metals and recycling industries. All of our advanced technology is based on real-world designs for real-world applications.

TM850

The TTM850 automatically screens railroad or vehicular traffic without the need for frequent calibration. High sensitivity allows the TM850 to be used at transportation hubs requiring a wider installation area and high throughput such as at ports and customs and border entry points. The TM850 is designed for use in harsh environmental conditions.

GammaTRACER

The GammaTRACER is designed for continuous measuring, recording and optionally transmitting the environmental gamma dose rate – more than 3 000 probes in worldwide use The hermetically sealed probe, including the GM detectors as well as all electronic components, operates completely autonomously and is independent of any physical connections, thus resisting extreme climatic and environmental conditions. Energy-saving chip technology allows maintenance-free non-stop operation of the GammaTRACER probe of typically five years, optionally up to ten years!

The time resolved measurement values are stored together with the auxiliary and QA parameters (built-in storage up to 12.800 data sets). Data download and parameterization can be performed via an interactive infrared or cable port. DataEXPERT, a professional user friendly database, communication- and analyzing software guarantees both, a simple and safe access to the stored data as well as their powerful visualization and fast, precise analysis. Via WebVIEW data can be accessed and configured via any standard browser.

Offering easy installation, fast relocation and long autonomy, GammaTRACER, enhances new approaches in environmental monitoring for routine as well as for emergency management. Additional interface possibilities for online and real-time data transmission, ranging from wired modules (RS232, RS485) to sophisticated wireless transmitters (SkyLINK, ShortLINK) fulfill a wide variety of user needs.

Radon Scout Radon Monitor

The SARAD Radon Scout Professional is a new detector technology defines a new level of Radon monitoring in a small dosimeter size Radon Monitor. The instrument will not be affected by any variations of temperature and humidity, external radiation, mechanical shocks and vibrations. Two AAA batteries are good for several month of autonomous operation. These features as well as the additionally integrated sensors for temperature, humidity, barometric pressure and CO2 (both optional) making the Radon Scout Professional the very first choice for both, short and long term Radon sampling. The fast and statistical accurate measurement allows – in combination with the optional switch output – the direct control of ventilation systems to maintain the statutory Radon threshold.

Radon Scout Plus

The Radon Scout Plus offers the highest sensitivity of its class exceeding the sensitivity of its competitors many times. This results in the lowest detection limit and statistical error. The thousands of times proven and US-EPA certified instrument will show the time distribution of Radon even at levels below 100 Bq/m³.

Due to its outstanding sensitivity, the instrument is perfectly suited for direct controlling of ventilation equipment by a potential-free switch contact. As an accessory, we offer a wireless switch which can be directly connected to the instrument. Thus, very low effort is required to control fans such as kitchen hoods, wall or window ventilators anywhere in your home. It is even possible to upgrade older instruments. The switch threshold for the Radon Scout is fixed to the EU target value of 300Bq/m³ whilst the Radon Scout Plus allows user specific settings.

AlphaGUARD

The new generation of AlphaGUARD offers high detection efficiency in radon Monitoring. AlphaGUARD incorporates a pulse-counting ionization chamber (alpha spectroscopy). Through optimal geometry of the chamber and intelligent signal evaluation this radon monitor is suitable for continuous monitoring of radon concentrations between 2 – 2 000 000 Bq/m³. AlphaGUARD offers high detection efficiency, a wide measurement range, fast response and permanent, maintenance-free operation with long-term stable calibration. No pump is required when operating in diffusion mode (e.g. long-term monitoring) and the instrument is insensitive to both, high humidity and vibrations.

In addition to the radon concentration, AlphaGUARD simultaneously measures and records ambient temperature, relative humidity and atmospheric pressure with embedded sensors.

Optimal ergonomics, high responsiveness and a large digital display make AlphaGUARD a reference device to perform measurement and analysis everywhere from a lab to the field..

Contact Us for GSA and Quantity Pricing

Scrap, Steel and Waste

RC Series Radiation Monitors

Prevent costly radioactive contamination of your scrap yard, equipment, plant, product and personnel with the RC4000 vehicle radiation detection system. The state-of-the-art design of the RC4000 incorporates 14 years of engineering and field application experience, and has provided the metals industry with the highest safety record to-date.

The RC4000 Series of radiation detection systems have been specifically designed to detect radioactive materials contained in a moving vehicle loaded with scrap material. The system design is modular, flexible and customizable, offering multiple detector configurations to meet site specific applications. The RC4000 incorporates only the highest quality of components and software/hardware technology available today.

The system menus are based on a Windows environment allowing a clear and precise understanding of the RC4000 operations without the requirement of having a background in physics. The software is extremely flexible, with touch-screen navigation that allows the user to configure general operations such as; setting passwords, adjusting detector parameters, pinpointing the location of a radioactive source when detected in a vehicle, storing and the retrieval of all vehicle information.

The RC4000 can be controlled and monitored from virtually anywhere in the world, in real-time. Supervisory administration has full control of system access with password control features. The system is both network and intranet ready, with secured digital wireless and/or high-speed telephone network capabilities. All scans are stored in both graphic and text modes with full data-logging and central alarm storage viewing capabilities.

RadComm engineers have developed proprietary technology that not only tracks the pulse count rates from the PVT scintillator but applies a special characterization analysis on each pulse. The key benefit of this "characterization" is the knowledge that specific isotopes will produce predictable results.

NEUTRON DETECTION

Characterization is used to eliminate any major fluctuations caused by varying densities in loads of scrap metal, along with any atmospheric changes that might affect a reading. This technique is similar to what is utilized in gamma ray spectroscopy where a sodium iodide scintillator is used. Characterization is a signal processing technique that focuses on real-time system noise cancellation, correction of ambient background variations and maintaining extremely accurate alarm threshold settings, all resulting in higher radiation detection sensitivity and the fewest false alarms.

GSA

RADCOMM RADIATION DETECTION SYSTEMS

PRIMARY PROTECTION

- Detectors must be the right size, not too small
- Detector surface area must be as close as possible to the surface area of the vehicle being scanned
- Detectors face to face spacing must be as close as possible
- WATERSIDE – *best possible detection capability with grapple detectors*

SECONDARY PROTECTION

- Unloading rail cars – detectors on the grapple/magnet
- Loading conveyors/shredders – grapple/magnet/side walls/overhead detectors
- Loading charge buckets - "In-Air" detectors
- Dust or Off-gas systems = Multiple detectors

State of the art software allows for full networkability, global control and reach back, the most sophisticated algorithms in the industry

4138 Rail Monitor

4069 for Truck Scales

Exclusive RC 4110 Replacement System

RC-7000 Series

The RC7000 utilizes gamma spectra energy deconvolution techniques, a significant improvement over conventional PVT scintillator based systems. This technology is specifically designed to enhance a radiation detection systems ability to recognize specific Gamma energies which can adversely affect alarm thresholds. The RC7000 utilizes of series of advanced isotopic identification algorithms in conjunction with RadComm's industry-leading and proven Region Of Interest (R.O.I.) analyses to provide best in class detection and identification.

RC7000 systems incorporate large sodium iodide thallium doped crystals (NaI(Tl)) specifically selected for high resolution signal response. The crystals are protected inside a stainless steel case with a low density aluminum door. The RC7000 stabilizes these crystals with specific Gamma energies associated with the ambient background energies, thus eliminating the need for a radioactive check source.

The RC7000 can be used in a variety of applications including: enhancement of an existing PVT based vehicle monitoring system, conveyor belt and area monitoring. RC7000's gamma spectra energy deconvolution algorithms give the system the ability to either ignore (for example NORM or medical isotopes) or alarm on specific gamma energies.

RC-4000-M

The RC4000-M Series monitors are the only mobile RPM's (Radiation Portal Monitors) on the market that utilize RadComm's most advanced vehicle radiation monitoring system technology. The system is specifically designed to detect discreet quantities of radioactive material contained in a moving vehicle or container. The innovative design of the RC4000 is the result of over 20 years of engineering design and field application experience that has provided the Metals Industry with the best proven safety record to-date. The RC4000 incorporates state-of-the-art components and the most advanced software/hardware technology currently available worldwide.

The Mobile features of the M-Series allow for transportability and ease of deployment in multiple locations. No site work, additional construction or infrastructure modifications are needed. The system is completely modular and mobile which provide the flexibility for the monitoring of any size vehicle at multiple locations with less resources required for engineering and installation. .The system menus are based on a Windows environment in order to allow a clear and precise understanding of the RC4000-M operations. The software is flexible, allowing the user to easily configure the system's general operations including; setting of passwords, adjustment of detector parameters, pinpointing the location of a radioactive source, and the storing and retrieval of alarm information.

RC-4000 Series

The RC4000 Radiation Detection Systems are finely tuned, revolutionary, instrumentation that incorporates 25 years of engineering design and field application experience, and provides the best safety record to-date. The System Menus are based on a Windows environment, allowing a clear and precise understanding of the RC4000 Operations without having a background in computer science or physics. The software is extremely flexible allowing the user to configure the systems general operation such as; setting passwords, adjusting detector parameters, pinpointing the location of a radioactive source when detected in a vehicle, storing and the retrieval of alarm information. The revolutionary design utilizes high-speed microcontroller/CPLD technology in each detector assembly. The detector electronics utilizes modular designs allowing fast and easy replacement of parts should a problem arise. The RC4000 PC windows based software is extremely flexible with easy to follow menus in the language of the country where the system is being used. The RC4000 system is by far the most advanced radiation detection system currently available.

RC-2W34 Waste Vehicle Monitor

The RC2W34 Waste Radiation Detection System is a precise and innovative instrument specifically designed to detect radioactive material in a moving vehicle containing waste and scrap. The revolutionary design of the RC2W34 incorporates 20 years of engineering design and proven field application experience.

The RC2W34 uses "rate-meter" concepts so that once the operational parameters have been established the system will provide automated scanning without operator interaction. The RC2W34 WASTE simply collects data on continuous bases from each detector assembly in the system and automatically sets up alarm thresholds according to the set parameters. In the event radiation has been detected in vehicle a varying audio frequency and change count-rate on the display will warn the operator of the detection.

The revolutionary design utilizes high-speed micro-controller/CPLD technology in each detector assembly. Multiple electronic adjustments such as gain, high voltage, noise filters and thresholds can be made via the PC display screen and/or network connection. The system electronics utilize modular design allowing for fast and easy replacement of components. The PC windows based software is extremely flexible with easy to follow menus in multiple languages.

RC17 WatchDog

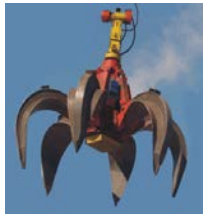
The RC17 WatchDog Radiation Detection System was designed specifically for the scrap and recycling industry to provide the absolute highest level of radioactive source detection in real-time for small to medium size weigh scale applications. RadComm Systems is a leading provider of innovative, radiation detection solutions for the Recycling industry. For more than 20 years, RadComm has been supplying the cutting edge and industry-leading radiation detection systems designed and developed exclusively for the metals and recycling industries. All of our advanced technology is based on real-world designs for real-world applications.

RadComm is uniquely positioned to provide the Scrap Industry with a new and innovative radiation monitoring solution for low level radioactivity for small weigh scale applications. The design of the RC750 addresses all the challenges associated with monitoring small and medium volumes of material as it is being weighed in and out on the weigh scale.

CRICKET Magnet System

Find radioactive sources that other radiation detection systems miss! CRICKET is the world's leading, most rugged, highly sensitive radiation detection magnet mounted system on the market! The CRICKET radiation detection system is designed specifically to meet the needs of the scrap, steel, and waste industries. The CRICKET's revolutionary, yet simple design provides an optimum level of detection capability for low intensity radioactive sources, on a continuous basis, in applications where radiation detection systems never existed before. The level of detection capability will far exceed any conventional radiation detection system, including detection systems that are mounted on the boom of a crane, regardless of detector size.

Get closer, scan longer, with more accuracy. Mounting the CRICKET in a magnet application allows direct exposure to all the material being handled. There are two different opportunities to analyze all the scrap material during the handling process. Firstly, the CRICKET system can scan on a manual basis, material may be scanned on the surface before the load is even picked up. Secondly, once the magnet is energized the load is scanned while in the magnet allowing for the highest level of sensitivity.



CRICKET Grapple System

The exclusive RadComm CRICKET radiation detection system fits any grapple, in any application. It has been designed specifically to meet the needs of the scrap, steel and waste industries. The CRICKET's revolutionary, yet simple design provides an optimum level of detection capability for low intensity radioactive sources, on a continuous basis, in applications where radiation detection systems have never existed before. The level of detection capability will far exceed any conventional radiation detection system, including detection systems that are mounted on the boom of a crane, regardless of the detector size.

Get closer, scan longer. Mounting the CRICKET in the grapple allows direct exposure to all the material being handled. There are three different opportunities to measure all scrap material during the handling process. Because the system scans on a continuous basis, material is scanned on the surface before the grab even picks up the load. Secondly, the grapple load is scanned for up to 10 seconds while in the grapple. Finally, the material is scanned as it falls from the grapple. These three scanning conditions allow the CRICKET to provide a high degree of detection capability for low level radioactive material. In addition, the CRICKET's robust design provides greater impact-resistance then any manufactured grapple.

NEUTRON DETECTION

RC-22/23 Wand

Pinpoint a radioactive source quickly and safely with the RC22 or RC23 Wand.

- Fully automatic and easy to use
- Light weight
- Extendible for longer reach
- Easy to read backlit display
- Quick response time with variable alarm tone
- Fully Automatic and Operator Friendly

The RC22 and RC23 were designed to allow fast and easy inspection of areas, containers or vehicles that may contain radioactive material. Upon start up the unit will perform a background check and automatically set an alarm threshold for the user. In only seconds the RC22 and RC23 is ready for use. Easy to Read Display with Audible Alarm—When radiation is detected the display will immediately show the increasing radiation levels. An audio alarm will also be activated to help locate the exact source of the radiation. The tone varies based upon the proximity and intensity of the radioactive source.

RC 3000 Conveyor System

The RC3000 Series radiation detection systems have been designed to detect very low Gamma Ray emissions in high density materials. Monitoring Conveyor and Off -Gas/Dust collection systems for radiation emissions, provides critical information that plant personnel need in order to take corrective actions in the event of an accidental smelting of a radioactive source. The RC3000 Series radiation detection systems utilize RadComm's high quality Polyvinyl Toluene (PVT) scintillators, electronics and Photomultiplier Tubes (PMT).

Simplified System Operation
The RC3000 Series utilizes real-time statistical algorithms that are based on Gamma Energy Distribution to ensure alarm thresholds levels are optimized. The RC3000 Series utilize a user-friendly graphical interface allowing the operator to easily move through the wide range of user options. All detailed Testing and Alarm records are stored on the internal hard drive and can be easily retrieved and interpreted as required.

SYCLONE G/GN

The SYCLONE Gamma-Ray spectrometer utilizes the highest quality Thallium doped Sodium Iodide crystal, combined with an integral high signal to noise ratio PMT and state-of-the-art electronics and embedded microcontroller firmware. All of these enhanced features allow the SYCLONE to be one of the most accurate portable Gamma-Ray spectrometers when it comes to identifying specific and/or multiple isotopes even with weak gamma sources. The mechanical assembly of the SYCLONE is robust and designed for field applications where harsh environments are commonplace.

Simplified and Flexible - The SYCLONE operating system utilizes sensible easy to read and follow Menus. The multi-position joystick and large LCD backlit display provides easy navigation through menu selections. Detailed spectral information is clearly and precisely displayed so that even users without special nuclear training can easily see scan results.

RC-2 Handheld Detector

The RC2 portable radiation detector has been designed to detect very low radiation intensity levels from radioactive materials buried in scrap metal. The RC2 is an extremely effective handheld detector that utilizes a large 32 cu. in. (0.54L) internal PVT plastic scintillation detector, a common material found in most larger vehicle monitoring systems. Operation of the RC2 is fully automatic and designed to allow fast and easy inspection of areas, containers or vehicles that may contain radioactive materials, or to verify or separate radioactive materials that have triggered an alarm on large scale radiation detection systems. The RC2 contains a state-of-the-art microprocessor and internal electric circuitry designed to automatically set the lowest achievable alarm level and to continuously monitor system operation in order to maintain consistent optimum performance.

MSpec G/GN

The MSpec portable fast responding gamma and gamma/neutron spectrometer and dose rate meter will instantly measure any material for the presence of radioactivity whether it is general waste, medical waste, scrap metal or recycled material. Operation of the MSpec is completely automatic once the easy-to-set operational parameters have been selected. Simply position the unit in close proximity to the object that needs to be scanned and listen for the varying audio alarm to sound and/or the displayed readings to increase. The MSpec scans suspect material and quickly analyses to determine if and what radio-isotope is present then further categorizes the result as Medical, Industrial, or Natural Occurring Radioactive Material (NORM).

Mini Rad-D G3

The Mini Rad-D is a highly portable, rugged, all-weather radiation detector that's small enough to wear on a belt yet powerful enough to quickly locate low-level radioactive sources, even in a container of material. Designed to discreetly monitor in any environment with very little training required, the Mini Rad-D can be set to notify the user by vibration or audible alarm whenever gamma radiation exceeds natural background levels. The mini's simple operation and highly readable display provide an automatically updated strength indicator in under 1 second, allowing a rapid area sweep to identify the exact location of any radiation source.

RadEye PRD4/PRD ER4

The Thermo Scientific™ RadEye™ PRD4 and PRD-ER4 personal radiation detectors provide highly sensitive radiation detection capability with little to no nuisance alarms, saving users valuable wasted time adjudicating alarms while at the same time improving or increasing scanning throughput. Additionally, the PRD identifies the nature of the discovered material in a manner configurable for your operation or user skills by distinguishing between artificial vs natural sources of radiation

Contact Us for GSA and Quantity Pricing

RADēCO Inc.

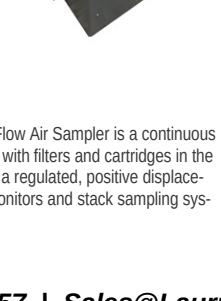
H-810DMDC

The RADēCO ™ Model H-810DM (Defense Model) is a ruggedized version of the popular H-810AC. The H-810DM is designed to meet a variety of military standards and for use in extreme environments. This microprocessor based unit has our unique aluminum Tough Screen. The Tough Screen has no moving parts or buttons and operates like a touch screen phone only made of 1/4 inch thick aluminum with a polycarbonate display window.

External upgrades to the unit include the upgraded keypad, power cord clamp, mil-spec paint, and the case has an internal support structure to prevent denting if dropped. The display and microprocessor have been upgraded to operate in extreme sub zero temperatures.

H-810BL

The RADēCO™ Model H-810BL (Brushless) is a ruggedized, maintenance free and continuous version of the popular H-810AC. The H-810BL is designed to meet a variety of military standards and for use in extreme environments. This microprocessor based unit has our unique aluminum Tough Screen. The Tough Screen has no moving parts or buttons and operates like a touch screen phone only made of 1/4 inch thick aluminum with a polycarbonate display window. External upgrades to the unit include the upgraded keypad, power cord clamp, mil-spec paint, and the case has an internal support structure to prevent denting if dropped. The display and microprocessor have been upgraded to operate in extreme sub-zero temperatures.



AVS-28A

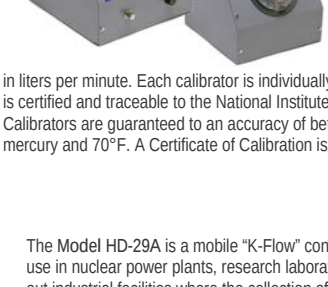
The Model AVS-28A Portable Constant Flow Air Sampler is a continuous duty, constant flow device. It can be used with filters and cartridges in the collection of airborne contaminates, or as a regulated, positive displacement vacuum supply for continuous air monitors and stack sampling systems.

H-809-VII

The Model H-809V is a lightweight rugged grab sampler designed specifically for heavy duty industrial applications sampling airborne particulates or combination particulates and radioiodine. The Model H-809V may be used with RADCO sample holders that house selected filter discs and high quality RADCO radioiodine cartridges. The unit may be re-calibrated using one of the RADCO NIST traceable Air Flow Calibrators (sold separately) to give the user a fully qualified air sampling system.

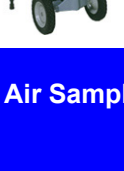
The H-809VI has a small, sintered metal exhaust diffuser and is normally used with combination filter and cartridge holders (typical flow range from 1-8 CFM). The H-809VII has a large diffuser and is normally used with 4" diameter filter holders (typical flow range from 1-30 CFM). Standard features of the H-809 series include a spring-loaded face guard which protects the switch, fuse, and flow adjust knob and a top mounted eye bolt with carrying strap.

Calibrators: C-812, C-828, C-8528; D-812, D-828, D-8528



RADēCO Air Flow Calibrators are the most durable and repeatable calibration devices available. The RADēCO calibrators are constructed of a precision machined aluminum venturi tube. The C-Series (analog) employs an appropriately ranged magnehelic gauge while the D-Series uses an appropriately ranged intelligent digital meter, both mounted in rugged steel cases. Simple, cost effective and consistently accurate year after year. RADēCO Air Flow Calibrators are available calibrated in cubic feet per minute or in liters per minute. Each calibrator is individually calibrated to an air flow instrumentation system whose calibration is certified and traceable to the National Institute of Standards and Technology (NIST). The RADēCO Air Flow Calibrators are guaranteed to an accuracy of better than +5%, referenced to 29.92 inches of mercury and 70°F. A Certificate of Calibration is supplied with each calibrator.

HD-29A



The Model HD-29A is a mobile "K-Flow" constant flow air samplers designed for use in nuclear power plants, research laboratories, production areas, and throughout industrial facilities where the collection of precise air samples is required on a continuous or semi-continuous basis. The heavy duty vacuum pump and constant air flow regulator combination permits the collection of an air particulate sample at a constant flow rate until the ΔP across the filter paper exceeds the capability of the pump at that flow rate.

Air Force Kit

H-809VII

High Volume Air Sampler

In 2003 RADēCO was selected by the United States Air Force as their supplier of Emergency Response air sampling equipment. Since then, RADēCO has provided the USAF with over 500 complete air sampling kits, composed of calibrators, filter media, sample holders and air samplers. These kits have been distributed to Air Force bases around the globe and we continue to support and supply the USAF with quality service and equipment.

USAF Complete Air Sampling Kit - Part No. *AS Kit_USAF SC*

- H-809VII - High Volume Air Sampler
- 2500-25 (2500-25A) - 4" Diameter Filter Holder
- 0750-49 - Filter Paper, Retention Efficiency 99.99% for 0.3 micron particles
- TRP-2 - Tripod for use with the H-809VII with applicable adaptor
- Soft Case Air Sampling Kit Model SC-1

Calibration Equipment - Part No. *D-8528Kit*

- D-8528 - Digital Air Flow Calibrator
- 2500-43 - Calibration Adaptor
- * One adaptor per calibration setup

Filter Papers- HD-2061 & LB-5211

HD-2061 This filter paper combines good aerosol filtration efficiency with slightly higher porosity than LB-5211 Laminated glass filter paper. These products are high efficiency multi-purpose filter materials with good heat resistance. They are particularly recommended for both gas and liquid filtration in the medical field and for air monitoring applications. The base material consists of micro glass borosilicate fibers with low amounts of acrylic resin, the composition of which corresponds to the description listed in DFR Title 21, Part 177.2260, Filter, Resin Bonded.

210B - Weather House

The RADēCO Model 210B Weather House is a heavy duty, all aluminum weather house with features especially desirable in a weather protected air sampling station. The Model 210B not only has two sets of louvers on each of four sides so that air may enter the weather house from any direction, but each set of louvers is uniquely counter-louvered to prevent rain or snow from blowing onto the instrumentation in the weather house. Each end also has upper louvers to prevent heat build-up under the roof.

To permit ease of installation, an electrical box is firmly mounted inside on one wall in the upper part of the house. Electrical conduit from the bottom of the house to the electrical box requires only wire installation and the wiring of the box. A standard light socket is provided so that a "heat lamp" may be installed by the user for extremely cold weather usage.

Air Force Kit Soft Case

Unlike the heavy and cumbersome Pelican Case, the SC-1 Transport Case was specifically designed for use with the USAF Air Sampling Kit. The SC-1 allows responders to store their air sampler attached to the TRP-2 Tripod, enabling responders to vastly improve their response time. There are also internal pockets for storage of the 2500-25A filter holder and 0750-49 filter paper.

Tripod Model TRP-2

GSA

The TRP-2 is a survey style Tripod which provides telescoping legs for varying sampling heights. The feet are rugged steel with sharp point for a solid gripping on a variety of surfaces. Constructed of lightweight Aluminum for ease- of portability with a solid cast aluminum head for years of reliability.

The TRP-2 works with either the H-809 Series or the H-810 series of High Volume Grab Samplers. When ordering please specify which unit it will be used so the appropriate adapter plate/block can be provided. Constructed of lightweight Aluminum for ease- of portability with a solid cast aluminum head for years of reliability.

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RAD-Pro 10

The RADeCO RAD-Pro 10 is an industry leader in back-pressure performance, reliability and ease-of-use. This pump offers flow rates up to 10 LPM respectively. And thanks to several advanced features, this pump overcomes the main causes of sampling errors – saving you time and money. The air flow display holds calibration for 30 days, even with atmospheric changes. While RADeCO air sampling pumps are known for their strength, the back-pressure capabilities of the RAD-Pro 10 are the highest in the industry for any personal sampling pump. With the RAD-Pro 10 there is less risk of lost samples due to battery failure. It incorporates a nickel-metal hydride (NiMH) battery which, unlike a NiCad battery, doesn't suffer from "memory" problems. So there's no hidden loss of battery capacity, no shorter-than-expected run time and no need for special battery maintenance.

You use our standard charger and get the same, highly predictable life, charge after charge. When the display indicates a "full" battery, that's exactly what the pump delivers. Plus, the indicator more accurately displays remaining life throughout the sampling period. You get faster charging too. The NiMH battery fully charges in just five hours. And you won't be hampered with special storage or disposal requirements, since the NiMH battery is friendly to the environment.

RAD-Pro 5

The RADeCO RAD-Pro 5 is an industry leader in back-pressure performance, reliability and ease-of-use. This pump offers flow rates up to 5 LPM respectively. And thanks to several advanced features, this pump overcomes the main causes of sampling errors – saving you time and money. The air flow display holds calibration for 30 days, even with atmospheric changes. While RADeCO air sampling pumps are known for their strength, the back-pressure capabilities of the RAD-Pro 5 are the highest in the industry for any personal sampling pump.

With the RAD-Pro 5 there is less risk of lost samples due to battery failure. It incorporates a nickel-metal hydride (NiMH) battery which, unlike a NiCad battery, doesn't suffer from "memory" problems. So there's no hidden loss of battery capacity, no shorter-than-expected run time and no need for special battery maintenance. You use our standard charger and get the same, highly predictable life, charge after charge.

TRU-DAC

The TRU-DAC Personal Air Sampler determines the inhalation dose obtained from the exposure to long living Alpha and Beta nuclides (LLRD) in the breathing air. The aerosols will be accumulated on the surface of a membrane filter by an internal pump. The collected activity is analyzed by a semiconductor detector with subsequent Alpha spectroscopy and Beta gross counting. The influence of natural occurring Radon daughters is fully compensated.

An accurate determination of the obtained dose without any additional equipment is possible by a special filter analysis mode. The small filter paper (17.5 mm diameter) can be used for preservation of evidence.

The lightweight (less than 1 pound) instrument can be worn on the body without impairment of the mobility. Sampling head, battery and electronics have been integrated into rugged metal enclosure of the size of a mobile phone. Therefore, no additional cables and hoses are required.

Dangerous doses will be detected within 60 Seconds and signalized by an acoustical and an optical alert. The display, equipped with a with bright back-light shows the recent dose values (µSv or mrem) as well as the over all count rates. The internal rechargeable battery allows approx. 24 hours of autonomous operation – it takes only one hour to recharge the battery.

TRU-DAC-Pro

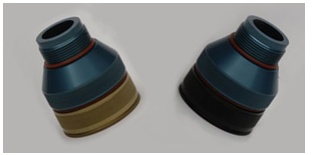
The TRU-DAC Pro Personal Alarming Alpha/Beta CAM, combines a very compact design with a high flow rate and long battery life. The unit measures long life Alpha and Beta emitting aerosols as well as Radon daughters by alpha spectroscopy and beta counting. A bright alpha numeric display and the clear keypad allow the operation even under harsh conditions.

The integrated powerful charger recharges the unit within two hours. The aerosols will be accumulated on the surface of a membrane filter by an internal pump. The collected activity is analyzed by a semiconductor detector with subsequent Alpha spectroscopy and Beta gross counting. For first responders, an optional wireless interface (Net Monitors by ZigBee) allows the officer-in-charge to receive the data online from the action forces. The instrument can be ordered also with a GPS receiver.

RADēCO Filter Holders

In-Line Filter Holders

Filter Diameter	47 mm	2”
Holder Number		
2500-65	B	
2500-67		B



Filter Diameter	47 mm	2”
Holder Number		
2500-05		B,C
2500-19		A,D
2500-21		B,D
2500-27		A,C
2500-34	A,D	
2500-35	B,C	
2500-39	A,C	
2500-46	B,D	

RADēCO™ has available the finest line of precision machined, all aluminum, holders for air sampling media. There are four different types of holders: (1) Open Face Filter Holder, (2) Inline Filter Holder, (3) Open Face Combination Filter and Cartridge Holder, and (4) Inline Combination Filter and Cartridge Holder. All four types are available for the RADēCO H809, H810, HD and AVS series of air samplers as well as for other manufacturers models.

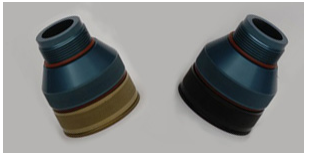
RADēCO pioneered the unique two O-ring method of preventing the sampling air from bypassing the cartridge in the combination holder. This method of sealing the cartridge in the lower body eliminated gasket creep and wrinkling which caused leakage past the cartridge.

All 47 mm, 2 inch and 4 inch holders are hard anodized to give the sample holders good chemical resistance to prevent oxidation and to color code the various parts. The main body of each holder is colored blue, while the filter retainer nuts and the cartridge retainers are colored gold for 47 mm, black for 2 inch, and blue for 4 inch.

Open Face Filter and Open Face Combination Holders for the HD & AVS series are supplied with a mating 3/8 inch male quick disconnect fitting which will snap directly into the inlet of the samplers. All inline type holders are furnished with a 3/8 inch male quick disconnect at both the inlet and outlet of the holder.

When ordering, please specify the type of holder desired, the diameter of the filter to be used, and in the case of a combination holder, the type of charcoal or silver zeolite cartridge (RADēCO or Scott) to be used in the holder.

Open Face Filter Holders



Filter Diameter	47 mm	2”	4”
Holder Number			
2500-04		B	
2500-23		A	
2500-25A			A
2500-33	A		
2500-42	B		

Open Face Combination Filter & Cartridge Holders

In-Line Face Combination Filter & Cartridge Holders

Filter Diameter	47 mm	2”
Holder Number		
2500-40	B,C	
2500-41		B,C
2500-44	B,D	
2500-45		B,D

A-Threaded for 787, 809, 810 series
B-With 3/8” male quick disconnects for HD & AVS series.
C-Holds Scott cartridge
D-All RADēCO Cartridges
Note: All inline holders fitted with two 3/8” male quick disconnect fittings

GSA

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LAURUS WMD & Environmental Kits

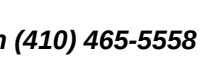
The Original Radiation Response Kits

3-8 Person Kits

Laboratory Kits

GO Kits

GSA



PRD Kit

AccuRad | Check Source

LAURUS EOD Kit

Kit's May Include:

- Dosimeters for Personal protection
  - ◊ Alarming dosimeter
  - ◊ Pocket ion chamber
  - ◊ Dosimeter holders
- Personal Radiation Detector/s (PRD)
- Survey meters for dose rates/contamination
- Radiological air samplers for airborne threats
- Training Guides
  - ◊ Written manuals
  - ◊ Interactive training CD Rom's
- Check Sources
- Pelican Cases

Custom Kits

The first step in providing protection for risk and vulnerability is to be able to immediately detect and respond to any potential radiological threat. LAURUS Systems provides a wide variety of specialized response kits designed to detect, identify, and analyze a radiological and/or nuclear threat. Since not all responding organizations face the same threat levels, or are responsible for the same degree of response, LAURUS Systems designs kits that address the specific needs of the end-user. We can assemble kits with any number of options from the products shown here, but we are certainly limited to these configurations. Many other options are available by request.

Pelican/Storm Cases

Waterproof • Dustproof • Rugged
Multiple Sizes • Multiple Colors
Versatile and Proven

Gamma Laboratory Kit

With RadEye PRD

The mobile Thermo Scientific Gamma Laboratory Kit allows immediate, local response to emerging food monitoring requirements for known contamination scenarios.

Highly Sensitive Gamma Lab Kit

With RadEye SX

The portable Thermo Scientific Highly Sensitive Laboratory Kit supports the laboratory and also field measurement program for contamination resulting from a nuclear accident. The Highly Sensitive Laboratory Kit combines a 1.0 l Marinelli beaker with the 2x2" NaI(Tl) probe model SPA-3. Data evaluation and display is performed by the low power RadEye SX multipurpose meter. This combination allows low limits of detection within short measurement time.

RadEye HEC

The RadEye HEC is a sample counting system that provides simultaneous alpha and beta measurements. The system incorporates a 2" (5 cm) dual scintillation phosphor mated to a sliding drawer accommodating a 2" (5 cm) diameter sample. Using a height-adjustable sampling area the drawer permits the use of different sample types and must slide fully to the rear to initiate the counting.

GSA

LAURUS RadEye Kits

- RadEye SX Gamma Kit
- Gamma Laboratory Kit
- RadEye Kit with Accessories
- LAURUS First Responder Kit
- RadEye PRD GO Kits
- RadEye Safety Kit

LAURUS RadEye kits can include RadEye PRD;s, B-20's, RadEye SX, probes, laboratory accessories and consumables. All configured in a rugged pelican/Storm case!

LAURUS Nuclide ID Kit

The URSA II, with a full-featured MCA program, can be used with practically any radiation detector and can extract any data your detector can supply! It has been designed taking into account comments and requests from our current URSA customers. URSA-II MCA, the all-new fully, quantitative Windows™ based URSA-II software package has been designed for ease of use in a 32-bit Windows™ environment. The Software can be installed on as many computers as you like, with no restrictions and includes free software updates.

- URSA-II (Universal Radiation Spectrum Analyzer)
- RAP 47 Scintillation Probe
- TDS Recon Ruggedized PDA
- Check Sources
- Pelican protective case for all items above (1)

The CsI (Tl) crystal used in Radiation Alert® Probes has a higher atomic number, is more rugged, and less hygroscopic than a typical NaI detector. The improved gamma ray absorption allows a thinner crystal to be used, effectively reducing the background count rate. Thin-crystal (1 mm) optimizes sensitivity to low energy gamma radiation while minimizing sensitivity to higher energies. An excellent detector for Iodine-125 and suitable for thyroid uptake measurements.

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Threat-ID

The ThreatID is the state-of-the-art chemical identifier, designed with input from first responders from all over the world. The superior performance, ergonomics, and usability of ThreatID supports higher confidence in identification of unknowns and quicker decision-making.

Any substance in contact with the diamond surface is interrogated by IR energy and a spectrum is acquired that is a characteristic pattern of the substance. In seconds, this IR "fingerprint" is automatically compared with libraries of digital reference spectra - Toxic Industrial Chemicals (TICs), Narcotics (including Fentanyl), Explosives, , Chemical Warfare , Pesticides, Weapons of Mass Destruction Agents, and common household chemicals. ThreatID comes standard with more than 23,000 reference spectra of pure substances and common mixtures including WMD's (w/ Novichok agents), explosives and drugs including fentanyl & fentanyl derivatives. All library spectra are matched to 908's proprietary onboard chemical information database, ThreatAssistTM. Web-based chemical informational databases such as NIOSH, PubChem and WISER are automatically searched with push-button links for all library files as well.

The ThreatAssist onboard database provides additional information on any library entry such as chemical name, synonyms, common use, hazards and PPE as well as many more chemical-specific properties. With the click of a button, all information about the sample and spectrometer, including spectra, library hits, data manipulation, system health and date/time of sample acquisition can be sent via email, directly from the spectrometer.

Team Leader Software -Our Team Leader mobile app lets you view our FTIR device information from anywhere, in real time. Emergency and military leaders outside the hot zone can make rapid, informed decisions to coordinate a response based on a clear understanding of the threat.

ExplorIR

The XplorIR can identify over 5,500 gases at low part per million (ppm) concentrations. It is the first handheld FTIR identification tool with this breadth and sensitivity. The lightweight device can be used on scene, measuring the gas at its source. The XplorIR can identify many dangerous gases, including toxic industrial compounds (TICs), flammables, corrosives, industrial gases, and many other chemicals at operationally relevant levels. While teams have many tools to detect an unknown gas, there is no compelling technology that allows responders to quickly identify a gas with a high level of accuracy. With the XplorIR, emergency response teams can quickly identify exactly what gas they are encountering so they can develop a mitigation plan.

Quantification Package

Measure the concentration of a hazardous gas or vapor at part-per-million (ppm) levels with the XplorIR Quantification Package— available for purchase. Fielded XplorIRs can be easily updated with quantification capability through a simple software update. With simultaneous identification and quantification capability in one simple-to-use device, first responders are empowered to make rapid tactical decisions on site remediation efforts.

ProtectIR

Reliable chemical identification in a compact package, the 908/RedWave Technology ProtectIR. Confidently identify thousands of chemical liquids and powders anywhere with the portable ProtectIR. Compact and lightweight, it's the ideal "grab and go" platform for rapidly assessing chemical threats.
Designed specifically for emergency response and military use, ProtectIR is extremely easy to use, with simple, on-screen prompts. Proven FTIR spectroscopy and rugged diamond ATR sampling technology quickly identifies powders and liquids with minimum user input. Identify samples in seconds and determine relevant hazards using the proprietary Threat Assist Database—with automated warnings for dangerous samples. Supervisors can review results in real time via 908's cloud-based TeamLeader app.

Powder & Liquid Identification

- Identifies over 22,000 Toxic Industrial Chemicals (TICs), Consumer Products, Narcotics, CWAs , Explosives, and Chemicals
- Indestructible Diamond ATR sample interface
- Identifies components of complex mixtures and warns the user of dangerous samples

Innovative Software

- Simplified user interface provides essential information for the end user
- Threat Assist database provides key technical and safety information about the sample
- Data immediately shared wirelessly with the TeamLeader App for archiving, remote viewing and advanced processing

BTNX Rapid Response Fentanyl Test Strip

The Rapid Response Fentanyl (FYL) Forensic Test Kit is a lateral flow chromatographic immunoassay for the qualitative detection of Fentanyl/ Norfentanyl in liquid and powder substances at the cut-off concentration of 200 ng/mL.

It is specific for Fentanyl screening with no significant cross reactivity to other opiates, such as Morphine and Heroin. The Rapid Response Fentanyl (FYL) Forensic Test Kit is able to detect Fentanyl and many other Fentanyl analogues such as CarFentanyl, Acetyl Fentanyl, Butyryl Fentanyl, Remifentanil, Ocfentanyl, Sufentanil, p-Fluoro Fentanyl, Furanyl Fentanyl, Valeryl Fentanyl, and 3-Methyl Fentanyl.

Interpretation of test results are: positive (one line), negative (two lines), invalid (no lines or no control line). Test results are available in 5 minutes after test completion.

HazClass Kit 1

The HazClass Kit 1 is a hazardous materials test kit designed to provide first responders a rapid and easy method to determine if unknown or suspicious materials present a possible chemical, radiological or biological hazard to the responder, population or surrounding environment. The procedure is not designed to identify the chemical, but to determine if a possible hazard may exist. The HazClass® Kit 1 maybe used by any personnel with basic HazMat training skills. The HazClass® Kit 1 can be used in any situation where hazardous materials may be of concern. The HazClass® Kit 1 can be used for the determination of EPA-RCRA Characteristic Hazardous wastes which are Ignitability, Corrosivity and Reactivity. The HazClass® Kit will help in the determination of certain DOT classes, material compatibilities, and labeling for transportation and disposal.

GSA

Chameleon

Military, law enforcement, first responders and emergency personnel know—the most effective missions are the safest. And only known dangers can be proactively mitigated. Yet, some of the most dangerous threats—like toxic, airborne chemicals—are often unseen. Whether investigating a potential chemical suicide, raiding a possible meth lab or conducting military reconnaissance in a hostile theater, ensuring safe breathing conditions is paramount to the safety of all involved. There are many chemical detectors on the market; choosing the right one is critical.

Chemical detection has never been easier. If half of the viewing window changes color - the chemical is present; it really is that simple. No power, no calibration. The Chameleon's rugged design allows for use in extreme heat and extreme cold conditions and in wet or dry environments. Even after immersion in water, just shake off the residual water and detect the invisible threats.

AVAILABLE KITS

HazMat Detection Kit | Clan-Meth Lab Detection Kit
Chemical Suicide Detection Kit | Arson Investigation Kit

Trace-X

Explosives remain the (HMEs) and Improvised Explosive Devices (IEDs) have become a fact of modern life. Military, law enforcement and intelligence personnel have a dual-role: uncovering the bomb networks before the weapon of choice for terrorists around the world. While once the domain of international terrorist organizations, bombs are now a threat from local, home-grown terrorists as well. Sadly, Home Made Explosives e bombers do harm, and investigating an incident after it occurs.

Traditional electronic explosive detection devices require a great deal of specialized training, a large budget and regular maintenance. While colorimetric explosive detection kits have existed for some time, they often require the user to mix chemicals, perform serial analyses, perform multiple swabs or tests, and then use a chart to interpret the results. Said plainly, existing colorimetric kits are difficult to use, especially in stressful situations; it's hard to interpret results correctly when bullets are flying. Even worse, existing colorimetric kits can expose the user to dangerous chemicals, and expose the kit to contamination from the environment or the user, leading to unreliable results.

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FLIR Griffin G510

The FLIR Griffin™ G510 GC/MS is a versatile, person-portable chemical identifier. It complements presumptive techniques used during emergency missions, by enabling responders to analyze all phases of matter (liquid, solid, vapor) and by performing rapid field-confirmation of chemical hazards. No Time? No Lab? No Problem. Designed for downrange missions, quickly and easily identify chemical hazards in emergency situations with the FLIR Griffin™ G510 portable GC/MS.

The integrated heated sample probe enables hot zone operators to identify vapor-phase chemical threats within seconds when operated in Survey Mode. The integrated split/splitless injector allows for environmental, forensic, and hazardous material sampling via syringe injection of organic liquids. The 9" on-board touchscreen delivers automated user controls and can be operated while wearing full personal protective equipment downrange. It is built with an IP65-rated enclosure for harsh environments and supports passive defense, interdiction, elimination, and consequence management missions.

Analyze Solids, Liquids, and Vapors
Integrated syringe injector and heated sample probe for analyzing all phases of matter. Limited maintenance and no service module required.

Trace Detection, Confirmatory Resolution
Integrated GC separates complex sample mixtures into individual components. MS detects trace level components and identifies them by matching against the on-board library of over 270,000 chemicals.

Streamlined Decision-Making
Large touchscreen and Method Selector Wizard guides users through analysis steps in the field. Chemical name and color-coded alarm results are produced in minutes.

Griffin G510x

The Griffin™ G510x Gas Chromatograph Mass Spectrometer (GC/MS) is a versatile, person-portable chemical identifier specifically optimized for the detection of Narcotics and Explosives. Get confirmatory Identification of major and minor chemical constituents in street drugs in under 5 min. It provides near real time confirmation of presumptive techniques used during emergency missions (FTIR, Raman, and HPMS). The integrated Sample injection port allows for environmental, forensic, and hazardous material sampling via the included Sample Prep Kit. The 9" on-board touchscreen displays guided user prompts and can be operated while wearing personal protective equipment (PPE). Long-lasting, on-board batteries ensure every mission is supported from beginning to end.

GSA

Fido X2

The FLIR Fido X2 is an ultra-lightweight, handheld explosives trace detector (ETD). It features FLIR's proprietary TrueTrace™ technology to detect a broad range of chemicals used in the manufacture of homemade, commercial, and military explosives with best-in-class sensitivity. On-screen prompts guide users quickly through operation.

At less than 1.5 pounds and featuring a durable, ergonomic design, the Fido X2 offers maximum portability. Intended to be used at security checkpoints or during periods of high alert, Fido X2 screens vehicles and personal belongings for explosives residue that might indicate contact with explosives or incendiary devices. With analysis provided in ten seconds or less, law enforcement officers can quickly and accurately screen for threats to mass transit, sporting arenas, and critical infrastructure with confidence.

Fido X4

The FLIR Fido X4 is a premium handheld explosives trace detector (ETD) that delivers unmatched sensitivity for a broad range of explosives, so you can easily detect threats at levels others can't. Next generation FLIR TrueTrace® detection technology features a new five-channel sensor array that delivers expanded threat coverage, enhanced sensitivity, and identification in a wide range of environmental conditions. The simplified user interface features on-board video tutorials, user prompts, and color-coded alarms with strength indicators so you can operate quickly and decisively. Analysis and reporting of results are made simple through multiple modern connectivity options, allowing critical data to be shared quickly. From high-volume checkpoint and randomized screenings to foot patrol and standoff operations, Fido X4 is ready to go when and where you need it. Expanded threat detection with best-in-class sensitivity from FLIR TrueTrace® Technology . Intuitive interface dramatically reduces training burden and increases end-user adoption and retention. Designed for extended operations in a wide range of environmental conditions. Up to 16-hour mission time with two 8-hour, hot-swappable batteries included .

DetectaChem SEEKERe

The DetectaChem SEEKERe is the smallest handheld explosive trace detector in the world. Developed cooperatively with the U.S. Department of Defense, the SEEKERe is a perfect choice when a rugged dedicated device fits your application. Portability, accuracy and quick analysis make SEEKERe the ideal testing solution for bomb squads, HAZMAT units, law enforcement and military applications. One handed operation, a protective boot, and a sealed, water-resistant enclosure make this the ultimate ruggedized battle-ready detector. Industry lead automated colorimetrics provide accurate detection capability with complete detection screening from a single test.

DetectaChem SEEKER Pro

The SEEKER Pro is the next evolution in field-ready handheld threat detection technology form industry-leader DetectaChem. Successor to the widely adopted and trusted SEEKERe, the SEEKER Pro has been designed and engineered in collaboration with the U.S. Department of Defense to the top of its class in accurate, user-friendly explosive, HME, drug, narcotic and precursor threat detection. With innovative new Spectrum Matrix Analysis technology, faster results, more complex analysis, SEEKER Pro is the go-to modern solution for hazardous material technicians, law enforcement and other first responders.

APEX R7 Raman Spectrometer

The DetectaChem APEX R7 redefines what field ready identification looks like. Developed in collaboration with the U.S. Department of Defense, the APEX R7 expands the capability limits for handheld Raman spectrometers to be the top of its class in accurate, user-friendly explosive, HME, chemical, drug and narcotic identification and mixture analysis. With vast technology advancements over older handheld Raman spectrometer systems, the APEX R7 delivers faster results, more complex mixture analysis, more safety features and more reporting features. The APEX R7 is the go-to modern solution for law enforcement, first responders and hazardous material technicians seeking the latest in threat identification.

GSA

DetectaChem Fentanyl Test Strip

Simple, Fast Fentanyl Test Strips with Ultra-Low, Trace Detection

Simple, Fast DetectaChem Fentanyl Test Strips with ultra-low sensitivity. Illicit opiate use and trafficking continues to be a crisis in the United States and around the world. Fentanyl remains the top opiate threat devastating communities and posing significant exposure risk to first responders.

The revolutionary new, highly sensitive Fentanyl Test Strips have been developed to complement and enhance our MobileDetect drug testing solutions with higher fentanyl detection specificity.

Quickly and easily detects ultra-low trace levels of fentanyl in powders, pills, packaging materials, surface areas, paraphernalia and more. When lives and safety are on the line, rely on the new Fentanyl Test Strips for industry-leading true trace detection. The Fentanyl Test Strips evolve the full MobileDetect drug detection product line by adding enhanced, ultra-low nanogram fentanyl detection. This highly sensitive test can supplement and enhance our MobileDetect [MDT] Multi-Drug Test or be a single solution solely for fentanyl detection.

APEX R7/SEEKER Pro Kit

The DetectaChem SEEKER Pro ApexR7 Multi Threat Kit includes two (2) analytical technologies that enable users to rapidly assess trace, residue and bulk substances. Swab surfaces, pills, packaging materials and more for trace detections with SEEKER Pro's revolutionary new Spectrum Matrix Analysis technology. Scan powders, liquids, solids and more with the APEX R7 advanced miniature Raman spectrometer.

Sync the APEX 7 to the SEEKER Pro and create powerful and robust dual technology evidence collection reports in seconds.

Contact Us for GSA and Quantity Pricing

DetectaChem MobileDetect

DetectaChem MobileDetect combines certified colorimetric detection technology with automated analysis and reporting on the FREE MobileDetect App for the best, easiest and safest field drug testing available. With test kits available for every drug, MobileDetect is capable of both trace and bulk sample detection. The MobileDetect App makes analysis and report generation easy, with features for logging data, photos, GPS mapping and more!.

Itemiser DX

The Itemiser DX is one of the most popular trace detectors on the market and the first simultaneous dual detector to meet the current TSA certification standards. The Rapiscan Itemiser DX ETD delivers fast explosives detection in a package that is ergonomic and portable. With results in as little as 8 seconds and a display that requires minimal interpretation, operators are able to concentrate on the important task of sample acquisition.

Itemiser DX incorporates ITMS trace technology into a lightweight, portable desktop system that can detect residue from explosives on skin, clothing, parcels, bags, cargo, vehicles and other surfaces. Simultaneous dual ion detection enables the Rapiscan Itemiser DX desktop to detect a broad range of explosives and narcotics that meet current world threats. Dual mode detection in a single system significantly decreases the possibility of mechanical failure associated with two detector systems. The Itemizer machine is able to maintain a stable humidity level in the detector, allowing for consistent and reliable detection results. The trace detection automatically saves test results, preventing deletions and has a robust internal solid-state hard drive for reliable data storage. The commercial version of the Itemiser DX explosive trace detection machine is a highly effective tool used in the mitigation of both explosive and narcotic interdiction. The TSA Cargo/Checkpoint versions are the latest trace-based desktop bomb detection devices to be approved as meeting the demanding detection standards currently in use by TSA.

ChemPro X

ChemProX is an early warning chemical detector that provides fast response and reliable measurement results. Since no consumables are required for detection, and due to its compact size, ChemProX is the ideal tool for field use, enabling any team to detect and classify CWA's & TIC's. Based on an over 35-year experience, ChemProX was developed together with First Response and Military professionals for enabling full situational-awareness during field operations through a very intuitive User Interface and built-in wireless connectivity. Operators are not alone in the field, therefore shared real-time location and detection information between the team members and the Command Centre can be crucial for a successful result.

ChemProX core technology is based in Bertin Environics' strong experience on orthogonal chemical detection. This early-warning chemical detector's performance relies on an unique and enhanced open-loop Ion Mobility Spectrometry (IMS) technology. ChemProX benefits from new additional sensors which increase reliability and allow the detection of an even wider range of chemical agents.

MobileTrace

MobileTrace®, the first simultaneous dual-mode handheld detector, expands the range of target explosives you can identify in a single sample for faster, more comprehensive security screening. Rapiscan® Systems patented ITMS™ (Ion Trap Mobility Spectrometry) technology offers you the explosives and narcotics detection, sensitivity and reliability proven at military bases, border crossings, airports, and other critical security checkpoints around the world. .

MobileTrace® graphical interface is intuitive and easy to learn for new operators. Itemiser® and EntryScan® users will find the operating system very familiar. Data is evaluated on a 800 NIT 3.5 in. (8.9 cm) color screen using five display options:

- SelectScan for a simple list of alarm/no alarm status of substances in the library.
- Peaks view for a tabular form of time-of-flight and height ofpeaks detected.
- Plasmagram for a graphical representation of peaks detected.
- 3-D view and Intensity Map for analytical interpretation (not shown).

Three default user levels (operator, maintenance and administrator) for access control. State-of-the-art networking capability and USB connectivity. MobileTrace® gives you the flexibility to swipe surfaces for trace particles or to analyze vapors. Touch screen with text or icon menus, 800 NIT 3.5 in. (8.9 cm) color, glare resistant display. Navigation pad, touch screen keypad and optional keyboard.

20/20 Bio-Check Kit

20/20 Gene Systems' BIOCHECK™ Kit helps first responders quickly determine--by looking for a color change--whether a suspicious powder may contain a bio terror agent. This is only a first step in determining whether a pathogen or toxin may be present. The Kit works by quickly identifying the presence or absence of a biomolecule found in all living materials and many toxins. It, therefore, provides a rapid screen for the possible presence of bioterrorism agents such as anthrax and ricin toxin, while ruling out most of the ordinary substances that citizens have frequently feared to be possible weapons of mass destruction (WMD).

The product works primarily by using PurpleHaze™ Technology to identify protein, found in all living material. All bio-warfare agents—including Anthrax and Ricin— contain protein. On the other hand, many harmless substances frequently mistaken to be potential bio-terror agents, such as powdered sugar, drywall dust, cornstarch, and many cosmetics—do not. The BIOCHECK™ Powder Screening Test Kit also includes a test to determine pH. A positive with this test further rules out any materials not containing bio hazardous materials; these don't normally survive acidic and basic environments.

BENEFITS

- Save resources, time and reduce citizen concern over false alarms
- Used by 100's of first responder teams nationwide
- Rules out 87% of powders that cause citizens to call 911*
- Simultaneously screen for the possible presence of multiple agents
- Laboratory proven to screen for Anthrax**
- Reduces your need for expensive, time-consuming agent identification
- Results in 5 minutes!

GSA

BioCapture Z750

The BioCapture® z750 was created to provide CBRN Defense Forces and Emergency Response Teams with a high-performance handheld sampler. The BioCapture® z750 is designed around a proven Dry Filter Unit (DFU) technology that has been in use worldwide for decades. The electret filter design incorporated into the z750 has extensively validated sample extraction protocols, and is compatible with PCR, immunoassay, and fieldable mass spec instruments, as well as analytical methods associated with laboratory confirmation.

The BioCapture® z750 retains many of the key features of previous hand-held collectors, such as ease of operation in Level A suits, elimination of sample carryover and ability to field decontaminate. For multiple tests in the hot zone, simply lift up the cover, insert a new filter cartridge, close the cover and start the sample collection.

A new feature incorporated into the BioCaputure® z750 is an option to sample at the instrument's maximum possible flow rate of 500 lpm. When set to Max Flow Mode, ambient air is sampled at 500 lpm for a period of 5 minutes. Using this mode, an operator can maximize the concentration factor of a sample in an event with the potential for airborne biological agents.

Pro HazClass Kit

Biological Protein Screening Test

The Pro HazClass® Kit is a biological protein screening test kit determining possible biological hazards with protein and pH test. Will indicate possible Bio-Terrorism agent or if WMD are present.

The HazChemLLC HazClass® and ProHazClass® Kits have and are being used by many personnal and departments throughout the United States and Internationally. Some of the domestic organizations currently using our kits are California Highway patrol, DEA, FDNY Fire Department-HazMat, Colorado State Patrol, Sheiff's Departments, Police Departments, Environmental Cleanup Companies, Health Departments, Governmental Agencies and many others. Internationally the HazClass® kits is usd in countries such as Canada, UK, Australia, South America, Iraq and others.

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IBAC 1

The FLIR IBAC1 is a fully automated biological agent detector that alarms in less than 60 seconds when an airborne bio-threat is present. It uses UV-Laser induced fluorescence to discriminate biological organisms from background particles, reliably detecting all four classes of bio-agents at concentrations below 100 ACPLA with low false alarm rates.

The IBAC 1 can operate integrated into a UAV or robotic system, or as part of a network configuration to form the "first tier" of a building/critical infrastructure protection system. Its four stages work together continually to monitor the environment for the presence of bio-threats, alarm upon detection, collect and preserve samples for confirmatory analysis, and transmit data to command and control centers. The IBAC 1 offers a flexible, field-ready solution for bio-aerosol monitoring.

MUVE™ B330

The FLIR MUVE B330 is a Continuous Biological Detector and Collector purpose-designed for unmanned aerial systems (UAS) to provide real-time continuous monitoring of biological threats while on the move. The B330 leverages the legacy design and performance of the IBAC product line in a SWaP-optimized configuration. The SkyRanger® R70 and R80 SkyRaider ™ serves as the platforms for the initial deployment of the MUVE B330 payload. The payload is designed to be intuitive, easy to use, and require minimal maintenance.

Sensor display is provided via the Mission Control Station (MCS) piloting interface. Alarming conditions and collector status will be displayed to the Pilot to not only alert them to a threat, but also provide positive confirmation that a sample is being collected. The MUVE B330 provides next level protection to combat forces by identifying biological threats remotely and down range.

IBAC 2

The FLIR IBAC2 is a continuous, real-time air monitor that alarms in less than 60 seconds when an airborne biothreat is present. It uses UV-Laser induced fluorescence to discriminate biological organisms from background particles, reliably detecting all four classes of biological agents at concentrations below 100 ACPLA with low false alarm rates and no consumables.

The IBAC 2 system can operate independently, as part of a network configuration to form the "first tier" of a building protection system, or via battery power module for mobile detection capability. The system automatically alarms upon detection, collects and preserves samples for confirmatory analysis, and transmits data to command and control centers. From long-term, fixed installations to short, mission-based tactical applications, the IBAC 2 is the most mature and widely deployed biological trigger on the market today.

APPLICATIONS

- Building Protection
- Special Event Monitoring
- Mission-Based Incident Response
- Force Protection
- Mass Transit Security
- Mobile Labs
- Integrated CBRNE Systems

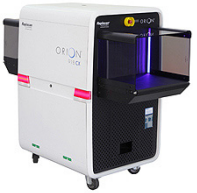
GSA

Mailscreen™ z200

The MailScreen™ 200 Mailroom Workstation is a fast, accurate, and cost-effective threat detection workstation to safely identify hazardous biological powders in mail and parcels. When used in combination with radiological, explosives and bomb screening capabilities, MailScreen offers an "all hazards" solution to mailroom risk management.

The heart of the biothreat detection capability is BioFlyte's BioTOF™ z200 Bioaerosol Identifier. BioTOF is a state-of-the-art MALDI time-of-flight mass spectrometer incorporating robotics to automatically collect and analyze aerosol samples for threats. BioFlyte is the first company to bring this proven analysis tool from the clinical lab to the point of need. MailScreen includes a Windows-based tablet computer, which serves as the system's Command Console, to operate the sensor. The console displays operational status, maintenance notifications, and communicates the results of MailScreen analysis to the operator. Detailed sensor data, such as spectrums from recent analyses and the status of each sensor, is accessible through the touch screen display.

Rapiscan 918CX

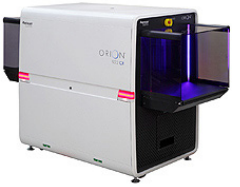


The Rapiscan 918CX is a High Performance, compact and versatile 540mm by 360mm tunnel X-Ray system with exceptional image quality and excellent threat detection alert capabilities. The 918CX can present images to the operator in the Classic 4-color and the new proprietary Spectrum 4-color (SP4) option providing superior image, allowing improved security by quick and accurate identification of threats and increase in throughput.

The Dual Mode Auto Z feature aids the operator in quick identification of organic materials, either in Range Mode which highlights areas based on operator selected Z-effective values of 7, 8 or 9, or in Interactive Mode which gives the operator the option to display the Z-effective number of a selected pixel.

The Target and NARCScan software options are designed to detect a wide range of explosives and narcotics respectively in real time during the scanning process by marking a potential threat on the X-ray image. Rapiscan® Systems detection algorithms are based on regulatory approved material analysis techniques.

Rapiscan 922CX



The 922CX is a High Performance 750mm by 550mm tunnel checkpoint screening system with best in industry resolution and Excellent threat detection alert capabilities for large carry-on baggage and parcels at the checkpoint. The 922CX can present images to the operator in the Classic 4-color and the new proprietary Spectrum 4-color (SP4) option providing superior image, allowing improved security by quick and accurate identification of threats and increase in throughput.

This feature aids the operator in quick identification of organic materials, either in Range Mode which highlights areas based on operator selected Z-effective values of 7, 8 or 9, or in Interactive Mode which gives the operator the option to display the Z-effective number of a selected pixel.

Target and NARCScan are designed to detect a wide range of explosives and narcotics respectively in real time during the scanning process by marking a potential threat on the X-ray image. Rapiscan® Systems detection algorithms are based on regulatory approved material analysis techniques..

Rapiscan 920CX

The Rapiscan 920CX can present images to the operator in the Classic 4-color and the new proprietary Spectrum 4- color (SP4) option providing superior image, allowing improved security by quick and accurate identification of threats and increase in throughput.

This feature aids the operator in quick identification of organic materials, either in Range Mode which highlights areas based on operator selected Z-effective values of 7, 8 or 9, or in Interactive Mode which gives the operator the option to display the Z-effective number of a selected pixel.

Target and NARCScan software options are designed to detect a wide range of explosives and narcotics respectively in real time during the scanning process by marking a potential threat on the X-ray image. Rapiscan® Systems detection algorithms are based on regulatory approved material analysis techniques.

920CX performance is in full compliance with the mandatory regulations (EC) No. 300/2008, (EC) Implementing Regulation 1998/2015 and update 815/2017, EC Implementing Decision 8005/2015 and update 3030/2017 for aviation security in the European Union.

Rapiscan 927DX

The 927DX is a High Performance 1010mm by 1010mm tunnel dual view screening system with excellent image quality and excellent threat detection alert capabilities. 927DX now can exhibit images in the Classic 4-color and the new proprietary Spectrum 4-color (SP4) option providing superior image, allowing improved security by quick and accurate identification of threats and increase in throughput.

Target and NARCScan are designed to detect a wide range of explosives and narcotics respectively in real time during the scanning process by marking a potential threat on the X-ray image. Rapiscan® Systems detection algorithms are based on regulatory approved material analysis techniques.

The new dual mode Zeff feature helps with identification of organic materials accurately and quickly either in Range mode which highlights the areas based on range selected by the operator, and/or in Interactive mode which provides the operator the option to display the areas based on the value of the pixel.

.927DX performance is in full compliance with the mandatory regulations (EC) No. 300/2008, (EC) Implementing Regulation 1998/2015 and update 815/2017, EC Implementing Decision 8005/2015 and update 3030/2017 for aviation security in the European Union.

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Rapiscan RTT80

With its stationary gantry and industry leading image quality, the RTT™ is revolutionizing the EDS market by significantly lowering cost of ownership. The RTT's high quality full volumetric CT images enable the advanced automated explosives detection algorithms to provide exceptionally high levels of detection with class leading image quality and low false alarm rates.

The RTT™ is designed to allow screening to the highest levels of security at the first point of screening. The versatility of RTT allows it to be used as a high speed inline system at the first level of screening, as a level 3 system in a multi-level screening system or due to its compact size the RTT 80 is ideally suited for concourse applications.

High speed reconstruction provides high resolution CT data to detection algorithms allowing the detection of the full range of explosive threats. By determining the presence and position of a threat, the industry leading resolution allows optimal performance for the detection of materials in configurations typically difficult to detect.

Scansilc

The Scanna Scansilc is a range of high performance flat panel portable X-ray systems offering high definition image quality for multiple defense and security field applications including IED search and investigation, unattended baggage checks, vehicle inspection cell searches and for detecting weapons and contraband material. Scansilc systems also have applications within the fields of forensics and counter surveillance (TSCM).

Scantrak

The Scanna Scantrak is a portable digital X-ray system with a range of different sized image capture units (ICUs). It is used by a variety of users which include police, military, customs and public safety agencies as well as prison and building managers to search and examine items safely in situ. Scantrak is easily set up and deployed within minutes by one person and can be configured for a variety of operating environments. It is supplied with a choice of X-ray generators, different size Image Capture Units (ICUs), standard, notebook or ruggedized laptops and has wireless and ROV capabilities. Operators can control the X-ray generator and capture images safely from the laptop using proprietary Scanview software. Images are transmitted instantaneously via a data transmission cable or through an optional wireless network. Multiple exposures can be taken without the need to re-approach the target.

Mini-Z

Meet the world's first handheld Z Backscatter imaging system — MINI Z. We took the same technology that made the ZBV® system the top-selling cargo and vehicle inspection system in the world, and miniaturized it. The MINI Z system provides effective detection of organic threats, contraband, and explosives for public safety, customs and border enforcement, and security officials.

The MINI Z system is a compact, single-sided imager that scans objects in hard-to-reach areas, giving better visibility into suspicious bags, walls, furniture, small boats, aircraft, vehicle tires, and car interiors. Unlike density meters, trace detectors, or portable transmission X-ray systems, the MINI Z system produces an easy-to-interpret image to quickly locate organic contraband behind non-metallic surfaces.

Scanmax 25

The Scanna Scanmax 25 has a large capacity x-ray mail screening chamber of 56 x 42 cm making it the perfect postal x-ray scanner for checking bundles of letters, courier deliveries, york trays, parcels and handbags. Scanmax 25 produces an extremely detailed x-ray image of an item's contents which is displayed on screen for fast and easy viewing. Scanmax 25 software offers a range of color density based contrasts, allowing operators to quickly and accurately distinguish between legitimate harmless items and malicious mail and be able to instantly confirm a parcel's safety.

Scanmax 25 is a freestanding postal security x-ray screening cabinet combining a large screening chamber with a compact physical size. It is designed for ease of use by non-technical staff and the front loading door and small footprint mean it can be located virtually anywhere in the workplace. Images are automatically enhanced for optimum clarity with the option to be shown in negative.

Scanmail 10K

The Scanna Scanmail 10k is a compact desk-top electronic mail screener for security checking letters and small packages. Scanmail will automatically find highly explosive letter bombs and bomb making components such as detonators, batteries and circuitry. It will also find other common mail delivered hazards such as razor blade letters and cutting devices whilst reliably ignoring office clutter such as paperclips and staples.

Over 10,000 units used in government, police, high security locations and corporate mailrooms. Scanmail 10K is used throughout the world in high security locations as well as in private residences and royal palaces. Scanmail 10K was also the machine that saved the life of one of the Unabomber's intended victims by successfully intercepting one of his postal devices.

Metor 28e

Hand-held metal detectors are an integral part of the physical security screening process. With the Metor 28e, we have designed a unit that benefits security personnel as well as the person being scanned. Our unique angled design allows you to thoroughly scan an individual, while keeping your hand away from their body.

The Fully digital design guarantees consistent calibration free operation and provides versatile programmable functionalities. Highly impact resistant ABS case provides excellent durability and light weight. The circular opening assists in pointing metal objects. Comfortable handle and wrist strap for easy control and grip.

Metor 6M

The Rapiscan Metor 6M is a multi-purpose multi-zone walk-through metal detector used primarily for weapons detection. Typical applications include passenger screening at airports and seaports, visitor screening at courthouses, federal buildings and prisons, access control in conferences, public buildings, sporting or other special events, stadiums and concerts, employee and visitor screening in power plants or factories, loss prevention in different industrial applications as well as screening in hotels, restaurants, casinos, and night clubs.

The latest features for advanced security are available on the Metor 6M. Calibration guard, power guard and ready-state violation all protect against unwanted tampering to the machine. Fully configurable user levels allow for unprecedented control over who can view and change settings on the Metor 6M. Automated sensitivity and floor sensitivity functions make the calibration process easy, eliminating the time consuming trial and error method.

Available in 32" and 36" widths, the Metor 6M has a random alarm function that enables security personnel to randomly choose individuals for an additional security check. With the new dual random alarm feature, people who cause a normal alarm are also subject to a random alarm. Metor 6M is built with intelligent and virtually invisible traffic counters which are integrated inside the coil panels. Counters are bi-directional with a decrease mode. Alarms, passengers and alarm rates can all be counted. With its immunity to electromagnetic interference and vibration, the Metor 6M is easy to install in the most demanding environments. Several units can be placed in close proximity to one another,

Metor 900M

Rapiscan® Systems Metor 900M is an advanced walk-through metal detector with enhanced capabilities for the detection of metal contraband in all security applications. Building on our many years of experience and knowledge the Metor 900M has been completely re-designed from the software and the user interface to the electronics and detection methods, to create our most advanced system yet.

With 60 localization segments the system can indicate items located left, center and right. With multi-colored LED's and 4 multi-zone display bars programmable as location indication or pacing lights, the Metor 900M helps operators quickly and easily identify the location of any items. The Metor 900M has the most advanced features for security and easy usability. These automatic functionalities make the installation procedure simple and fast as well as keep the level of the operational security high and reliable even under very demanding conditions.

Metor 900M is fully weatherproof as standard. The unit has been tested to comply with IP65 requirements. All materials used in the product are water resistant making it suitable for both indoor and outdoor applications.

The Metor 900M object classification technology allows an advanced capability to identify items more accurately compared to ferrous/non-ferrous information only. With exact electromagnetic characteristics on the material and shape of the item the Metor 900M is able to quickly distinguish between threats and innocuous objects. This will reduce the need for manual pat down and save time and money.

PM700

The Rapiscan-TSA PM700 automatically scans pedestrian traffic without the need for frequent calibration.
They are intended for applications where the relatively low energy emissions from 235U and 239Pu are the main concern. They are currently in use at uranium enrichment plants, weapons manufacturing plants, weapons storage sites, nuclear laboratories, nuclear waste disposal and storage sites where detection of Special Nuclear Materials (SNM) is essential. The TSA PM700 monitor is a stand-alone pedestrian radiation portal monitor (RPM) with excellent sensitivity and reliability.

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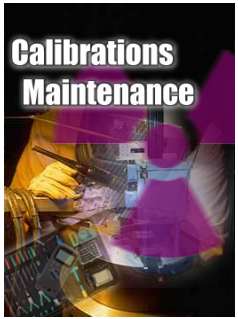
Calibrations & Maintenance



CALIBRATIONS

LAURUS Systems can provide calibration and maintenance services for virtually any and all radiation instrumentation. Our lab performs calibrations of survey meters and dosimeters using NIST-traceable Cs-137 sources. Our contamination monitoring equipment calibrations include complementary detector efficiencies using NIST-traceable radioisotopes commonly used in industrial, medical and research applications.

We are licensed to perform calibrations on instruments with fixed and loose contamination Additional calibration capabilities include scalers, high and low volume air samplers and lapel air samplers. Neutron detector calibrations are now available!

Instrument receipt, inspection, calibration and return shipment is normally completed within 4 business days. Expedited same day and next day service is also available upon request. Calibration certificates are issued with each instrument, listing as-found and as-left data, with indications of any out-of-tolerance conditions. Our custom instrument calibration tracking database logs all calibration history data and provides automatic calibration-due reminders to customers.

REPAIRS

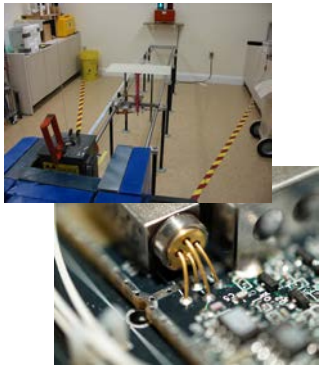
A highly-trained staff of service technicians have experience repairing all major manufacturers radiation detection instruments. We offer repair services for both portable and installed radiation monitoring equipment, and are licensed to repair instruments with fixed and loose contamination. On-site repair service is also available. We normally perform repairs down to the component level, with a focus on minimizing costs to our customers.

Our calibration laboratory maintains an inventory of common repair parts and procures additional OEM parts from manufacturers as needed. Most repairs will be performed within 3 weeks, depending upon OEM parts availability.

All repairs and maintenance are done at an authorized service center for Mirion (including MGPI, Rados and Rotem). Additionally, we perform all levels of repair on instruments manufactured by Ludlum Instruments, Thermo Fisher Scientific, Canberra, Victoreen, NDS, SAIC, and many other manufacturers.

Our service benefits include:

- Instrument repairs for all major manufacturer's instruments
- Repair data captured electronically and detailed in reports
- Instrument calibration services that are fast and economical



Fast turn-around
Most instruments are calibrated within 4 days
Competitive pricing
Most calibration prices are the lowest in the industry
High volume
Thousands of instruments processed annually
Established reputation
30 years of experience in instrumentation services

GSA

Our services are available on many State Contracts as well as through our GSA Contract. All of our maintenance and service associates are ready to serve you professionally and efficiently.

Instruments from LAURUS Systems, such as electronic alarming dosimeters and survey meters come with a one year manufacturer warranty. The manufacturers recommend calibration on a yearly basis for most instruments. There is no other regular maintenance or adjustment needed on the radiation detection instruments.

LAURUS Systems has built a reputation on exceeding customer expectations regarding instrument support and service. We can also create Maintenance Service Agreements to meet specific needs and requirements. Please contact us for pricing and return information.

DosiFFR

DosiFFR is the perfect solution for first responders, hazmat teams, laboratories and industrial users looking for a simple, user-friendly way to configure a dosimeter based on their specific requirements. DosiFFR is a streamlined Windows-based software application that enables users to manage dosimeter, personnel and exposure data. The single workstation system provides for straightforward log-in/log-out of personnel and the configuration of DMC2000, SOR and DMC3000 electronic self-reading dosimeters.

DosiFFR is the perfect solution for first responders, hazmat teams, laboratories and industrial users looking for a simple, user-friendly way to configure a dosimeter based on their specific requirements.

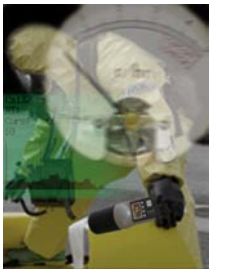
Teleview 2000

TeleView 2000 is a software program designed for real-time monitoring of radiation detection devices -providing the user timely display of dose and dose rate information from a variety of monitoring devices. The software suite consists TeleCast, TeleView Client and TeleLog for a single station or enterprise application. It displays real-time data captured from electronic dosimeters, portable survey instruments and continuous air monitors capable of monitoring-up to

Computer Based Learning

Laurus has developed a number of easy-to-use computer based individual training presentations and tutorials. Although not meant to replace face to face training, our affordable and easy to follow training programs offer users a suitable alternative for many of our widely used detection and monitoring instruments. These personal learning aids are very helpful for maintaining on-going equipment familiarization and refresher training. Convenient and economical instrument training is available anytime, anywhere.

On-Site Training

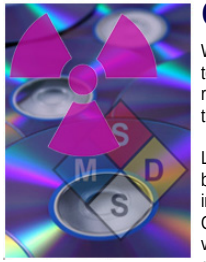


You don't have to go anywhere to get face-to-face training. Whether it is instrument-specific or topical, our experienced team will bring knowledge to you. Your organization will benefit from on-site training with the equipment and systems that your own and use. This ensures that we thoroughly cover the topics and procedures that are important to you. We'll consult with you and evaluate your needs to utilize the ideal curriculum and hands-on exercises. When we leave, your employees will be confident with the systems and their ability to use them.

Our users find that this option works well for organizations that want more individualized instruction. It's a cost-effective way to train several users at once with one-on-one instruction and can include or be exclusively a train the trainer scenario. This will allow selected personnel to more actively participate in the training process.

We also offer you the opportunity to come to our Ellicott City, Maryland training facility and learn from experienced Laurus employees and practice your skills on our equipment and instrumentation. By the time you go home, you will feel comfortable and ready to fully utilize your instruments and systems. Whether you're a new customer, an existing client, or in need of a comprehensive training program, Laurus face-to-face training is a great way to master our products and maximize end-user capabilities.

Custom Training Solutions



Whether you are implementing the latest technology or preparing new employees to step into their roles within your organization, remember that your most valuable resource is the human one. When your team members are appropriately trained, they will be successful.

Laurus Systems offers solutions to training and performance issues brought about by technological, procedural, or regulatory changes. We are experienced in the instruments we provide as well as in the use of these technologies in the field. Our expertise goes beyond that however as we can provide practical training for virtually any radiation detection instrumentation. Likewise, we can provide programs to help your staff understand and better respond to the radiological issues that they will face in a sensible and easy to comprehend format.

Our experienced staff and contract personnel will help your perform a needs analysis, create and implement a custom solution tailored to your needs, determine whether your training investment is achieving the desired results, and offer you a number of delivery options.

Contact Us for GSA and Quantity Pricing

Notes

Use QR Code For
Digital Datasheets

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